000 000 000 000 000 000				PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY YYY YYY YYY YYY YYY YYY YYY YY
UUU UUU UUU UUU UUU		EEE EEEEEEEEEEE EEEEEEEEEEE EEE EEE	111 111 111 111 111 111	PPP PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$	444 444 444 444 444 444 444
UUU	UUU		††† ††† ††† ††† ††† †††	PPP PPP PPP PPP PPP PPP	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$	YYY YYY YYY YYY YYY YYY

		NN		000000 00 00 00 00
	\$			

UET VO4

UET VO4

: ..

: * *

.TITLE UETINITOO VAX/VMS UETP USER INTERFACE PROGRAM .IDENT 'VO4-001' .ENABLE SUPPRESSION

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FACILITY:

This module will be distributed with VAX/VMS under the [SYSTEST] account.

ABSTRACT:
This program handles all UETP user interface dialogue.

ENVIRONMENT:

This program requires the following privileges and quotas: GRPNAM, CMEXEC

AUTHOR: Larry D. Jones, CREATION DATE: November, 1980

MODIFIED BY:

RNH0015 Richard N. Holstein, 07-Sep-1984 Change BIOLM and ENQLM quotas to reflect new minima. V04-001 RNH0015

RNH0014 Richard N. Holstein, 17-Aug-198 Remove BYTLM quota check; BYTLM is used for WCBs. V03-015 RNH0014 17-Aug-1984

PEL0001 Patti E. Lutsky, 21-Jun Change reference to VENUS from 11/790 to 8600. V03-014 PEL0001 21-Jun-1984

V03-013 RNH0013 Richard N. Holstein, Fix minor bugs in V03-011. 06-Mar-1984

2222222222233333333333344

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UE1

UET VO4

20

0000 0000 0000	58 : 59 : 60 :	v03-012	KPL0100 Peter Lieberwirth 6-Mar-1984 Change CONFREG reference to CONFREGL.
0000 0000 0000 0000	61 62 63 64 65 66 67 68	v03-011	RNH0012 Richard N. Holstein, 27-feb-1984 Take advantage of new UETP message codes. Fix SSERROR interaction with RMS_ERROR. Get rid of SHOW MEMORY subprocess in favor of new \$GETSYI capabilities. Incorporate fixes from the device test template. Rework message indicating load test calculations.
0000 0000 0000 0000 0000	69 70 71 72 73	v03-010	RNH0011 Richard N. Holstein, 02-Feb-1984 Allow a user to select any subset of UETP phases. Remove the "LOCAL" subset of phases as an option. Remove old code which was conditionally assembled in case we needed to include non-paged pool in estimating loads.
0000 0000 0000	(/:	v03-009	RNH0010 Richard N. Holstein, 01-Aug-1983 fix bug in RNH0009 which picked the wrong CPU for variations on a basic CPU type.
0000 0000 0000	78 79 80 81	v03-008	RNH0009 Richard N. Holstein, 29-Jul-1983 Add CLUSTER and LOCAL "phase names". Support new CPU types, SUPERSTAR, VENUS, SCORPIO, NAUTILUS, SEAHORSE I, microvAX chip.
0000 0000 0000	81 82 83 84 85 86	v03-007	RNH0008 Richard N. Holstein, 26-May-1983 Change ASTLM and DIOLM to 55, each.
0000 0000 0000	87	v03-006	BAA0002 Brian A. Axtell, 14-Dec-1982 Removed phase names for RMS32, system services, native utilities, and compatibility mode tests from phase inquire.
0000 0000 0000	89 90 91 92	v03-005	BAA0001 Brian A. Axtell, 14-Dec-1982 Fixed problem when prompting for phase names so that it doesn't drop a phase if there is an input error.
0000 0000 0000 0000	42 :		RNH0007 Richard N. Holstein. 18-Oct-1982 Check for errors upon termination of the subprocess which does a SHOW MEMORY command into a file.
0000 0000 0000	99 100	v03-003	RNH0006 Richard N. Holstein, 12-Jul-1982 Change our dependency on SHOW MEMORY so that we expect a second line of paging file info for shorter filespecs.
0000 0000 0000	101 102 103 104	v03-002	LDJ0006 Larry D. Jones, 30-Mar-1982 fix dump mode equation output, modified by history and set the 11/782 cpu scale value.
0000 0000 0000 0000 0000	105 106 107 108 109	v03-001	RNH0005 Richard N. Holstein, 23-Mar-1982 Fix confusing error message.
0000	107 ,		

: Ascic name

NAME:

ASCIC /NAME/ PC5...= .ENDM ITMENT

UET VO4

```
16-SEP-1984 00:22:25 VAX/VMS Macro V04-00
12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2
                                                                                       Page
```

```
EQUATED SYMBOLS:
                              15554556715590161
                                           Facility number definitions:
RMS%_FACILITY = 1
00000001
                                           SHR message definitions:
UETP = UETP$_FACILITY@STS$V_FAC_NO ; Define the UETP facility code
00740000
007410E0
00741038
00741080
00741130
                                                  UETP$_ABENDD = UETP!SHR$_ABENDD ; Define the UETP message codes UETP$_BEGIND = UETP!SHR$_BEGIND UETP$_ENDEDD = UETP!SHR$_ENDEDD UETP$_TEXT = UETP!SHR$_TEXT UETP$_BADKEY = UETP!SHR$_BADKEY
                              162
163
164
165
00741108
                                          Miscellany:
LOGNAM_SIZE
SYMBOL_CNT
TEXT_BUFFER
MAXSVM_SZ
                 166
000000FF
00000004
0000012C
                                                                                                              Maximum logical name size
Number of local syms to be evaluated
Internal text buffer size
                                                                           = 255
                              168
169
170
171
                                                                          = 300
= 255
= XD
000000FF
000000FF
0000000D
0000000A
00000020
000000020
000000020
00000001
00000002
00000004
00000004
00000004
00000010
0000001E
00000009
0000003E8
CCCD3F4C
                                                                                                              Maximum symbol size
                                                                                                              Carriage return
Line feed
                                                                              AXA
                                                                           =
                                                                              ^A/M/
                                                                                                              M character
                                                                           =
                                                                              ^A/ /
                                                   SPACE
                                                                                                              Space character
                                                                           =
                                                   TAB
                                                                                                              Tab character
                                                                           =
                                                   LCBIT
                                                                               ^X20
                                                                                                             Lower case bit
Flag set if must prompt for input
                                                                           =
                                                   PROMPTV
                                                                           =
                                                   PROMPTM
                                                                               1aPROMPTV
                                                                           =
                                                   TERMINALV
                                                                           =
                                                                                                           : Flag set if SYS$COMMAND is a terminal
                                                                               Taterminaly
                                                   TERMINALM
                                                                           =
                                                  PRIV PRNTV
                                                                                                           : Flag set if already printed priv msg
: Flag set if running in dump mode
                                                                           = 3
                                                                           =
                                                   DUMPM
                                                                              1aDUMPV
                                                                           =
                                                  PRIV_CNT = 30
QUOT_CNT = 9
PP_PAGE_USAGE = 1000
PER_WS_INUSE = ^F0.20
                                                                                                              Privilege count
                                                                                                              Quota count
                                                                                                           ; Est. of per process use of page & pool
CCCD3F4C
                                                                                                           : Est. %age of proc continuous use of its WS
                 0000
```

```
VO
```

```
VAX/VMS UETP USER INTERFACE PROGRAM
UETINITO0
V04-001
                                                                                   16-SEP-1984 00:22:25 VAX/VMS Macro V04-00
12-SEP-1984 15:11:07 EUETPSY.SRCJUETINITOO.MAR;2
                                    Read-Only Data
                                     00000000
                                                                         Read-Only Data
RODATA, NOEXE, NOWRT, PAGE
                                                  189
190
191
                                                      ACNT_NAME:
                                                                                                    : Process name on exit
53 45 54 53 59 53 00000008'010E0000'
                                                                .ASCID /SYSTEST/
                                                      TEST_NAME :
                                                                                                    : This test name
49 4E 49 54 45 55 00000017'010E0000'
                                                                .ASCID /UETINITOO/
                                                      MODE:
                                                                                                    ; Run mode logical name
       45 44 4F 4D 00000028'010E0000'
                                                                .ASCID /MODE/
                                                      DUMP:
                                                                                                    : String to match...
: ...if we're to run in dump mode
       50 4D 55 44 00000034'010E0000'
                                                                .ASCID /DUMP/
                                                      SYS$COMMAND:
                                                                                                      Name of device from which ...
4F 43 24 53 59 53 00000040 010E00000 44 4E 41 4D 4D
                                                                .ASCID /SYS$COMMAND/
                                                                                                    : ... the test can be aborted
                                                      COMMAND_ITMLST:
                                                                                                      $GETDVI arg list for SYS$COMMAND
                    0000000 00000401
                                                                         4.DVIS_DEVCLASS
DEVBUF_0
64.DVIS_DEVNAM
                                                                . WORD
                                                                                                      We need the device class...
                                                                LONG
                              0000'0040
                                                                - WORD
                                                                                                    : ...and the equivalence name
                    00000045
                                                                . LONG
                                                                         BUFFER BUFFER PTR
                                                                . LONG
                                                                                                    : Terminate the list
                                                      USERS:
                                                                                                    ; Load count logical name
   53 44 41 4F 4C 0000006F'010E0000'
                                                                .ASCID /LOADS/
                                                      PASS_NAME :
                                                                                                    : Local pass count logical name
4E 43 53 53 41 50 0000007C'010E0000'
                                                                .ASCID /PASSCNY/
                                                      REPORT_NAME:
                                                                                                    : Long or short report indicator name
54 52 4F 50 45 52 0000008B'010E0000'
                                                                   CID /REPORT/
                                                       SYSDISK:
                                                                                                    : Name of device we are booted from
59 53 24 53 59 53 00000099 010E0000 0 54 4F 4F 52 53
                                                                .ASCID /SYS$SYSROOT/
                                                      NO_RMS_AST_TABLE:
                                                                                                      List of errors for which...
...RMS cannot deliver an AST...
                               00000000
                                                                                                      ... even if one has an ERR= arg
                                                                 LONG
                                                                 LONG
                                                                                                      Note that we can search table...
                                                                                                      ... via MATCHC since <31:16>...
                                                                LONG
                                                                                                      ...pattern can't be in <15:0>
                                                                 LONG
                                                      NRAT_LENGTH = .-NO_RMS_AST_TABLE
                                                       CNTRLCMSG:
                                                                .ASCID \Aborted via a user CTRL/C\
                                                      SYNTAX_ERROR_MSG:
78 61 74 6E 79 53 000000E1'010E0000
                                                                .ASCID /Syntax error in response. Please try again./
```

UETINITOO VAX/VMS UET Read-Only D	P USER INTERFACE PROGRAM 16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 6 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (4)
65 72 20 6E 69 20 72 6F 72 72 65 20 00E7 65 6C 50 20 20 2E 65 73 6E 6F 70 73 00F3 69 61 67 61 20 79 72 74 20 65 73 61 00FF 2E 6E 010B	
73 69 20 53 41 21 00000115 010E0000 010D 64 69 6C 61 76 20 61 20 74 6F 6E 20 011B 21 65 6D 61 6E 20 65 73 61 68 70 20 0127	239 240 INVALID_PHASE_MSG: 241 .ASCID /!AS is not a valid phase name!/
73 69 20 53 41 21 00000138 010E0000 0133 64 69 6C 61 76 20 61 20 74 6F 6E 20 0141 21 74 6E 75 6F 63 20 73 73 61 70 20 0140	242 243 INVALID_PASS_MSG: 244 .ASCID /!AS is not a valid pass count!/
73 69 20 53 41 21 00000161 010E0000 0159 64 69 6C 61 76 20 61 20 74 6F 6E 20 0167 21 74 6E 75 6F 63 20 64 61 6F 6C 20 0173	245 246 INVALID_LOADCNT_MSG: 247 .ASCID /!AS is not a valid load count!/
017F 73 69 20 53 41 21 00000187'010E0000' 017F 64 69 6C 61 76 20 61 20 74 6F 6E 20 018D 65 70 79 74 20 74 72 6F 70 65 72 20 0199	248 249 INVALID_REPORT_MSG: 250 .ASCID /!AS is not a valid report type!/
21 01A5 01A6 01A6 56 44 54 45 47 24 000001AE 010E0000 01A6 72 6F 66 20 64 65 6C 69 61 66 20 49 01B4 44 4E 41 4D 4D 4F 43 24 53 59 53 20 01C0 65 72 20 73 75 74 61 74 53 20 20 2E 01CC 3A 73 61 77 20 64 65 6E 72 75 74 01D8	251 252 COMMAND_DVI_FAILED: 253 .ASCID \\$GETDVI failed for SYS\$COMMAND. Status returned was:\
72 61 20 75 6F 59 000001EB'010E0000' 01E3 74 6E 69 20 64 65 67 67 6F 6C 20 65 01F1 20 67 6E 6F 72 77 20 65 68 74 20 6F 01FD 0D 2E 74 6E 75 6F 63 63 61 0209 67 6F 6C 20 65 73 61 65 6C 50 09 0A 0212 59 53 20 65 68 74 20 6F 74 20 6E 69 021E 6E 75 6F 63 63 61 20 54 53 45 54 53 022A	254 255 WRONG_ACCOUNT: 256 .ASCID \You are logged into the wrong account.\ <cr><lf>- 257 \ Please login to the SYSTEST account.\</lf></cr>
6E 75 6F 63 63 61 20 54 53 45 54 53 022A 2E 74 0236 0238 0738	258 259 STRSTR: 260 .ASCID \The following:\ <cr><lf></lf></cr>
20 65 72 61 0A 0D 00000258'010E0000' 0250 64 72 61 64 6E 61 74 73 2D 6E 6F 6E 025E 53 59 53 20 65 68 74 20 72 6F 66 20 026A 74 6E 75 6F 63 63 61 20 54 53 45 54 0276	261 262 ENDSTR: 263 .ASCID <cr><lf>\are non-standard for the SYSTEST account and may\-</lf></cr>
55 20 6E 69 20 74 6C 75 73 65 72 20 028A 2E 73 72 6F 72 72 65 20 50 54 45 0296 02A1	264 \ result in UETP errors.\ 265 266 CTRSTR:

UET VO4

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VO
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```
UETINITO0
V04-001
                                                                               16-SEP-1984 00:22:25
12-SEP-1984 15:11:07
20 43 41 21 5F 21 000002A9 010E0000
                                                267
                                                             .ASCID \!_!AC !AC.\
                                                   PRV_STR: .ASCIC \privilege\
      65 67 65 60 69 76 69 72 70
                                                             .ASCIC \quota\
                   61 74 6F 75 71 00'
                                                272 FILE:
                                                                                               ; Fills in RMS_ERR_STRING
      65 6C 69 66 000002CB'010E0000'
                                                             .ASCID /file/
                                                    RECORD:
                                                                                                ; Fills in RMS_ERR_STRING
64 72 6F 63 65 72 000002D7'010E0000'
                                                             .ASCID /record/
                                                    RMS_ERR_STRING: : Announces an RMS error .ASCID /RMS !AS error in file !AD/
                                                280 SYSTEM:
                                                             .ASCID \!/You are running on an !AC CPU with !UL pages of memory.\
                                                282 DISK:
                                                             .ASCID \The system was booted from !AS.\
                                                   PASS_PROMPT:
.ASCID \How many passes of UETP do you wish to run [1]? \
                                                286 LOAD_PROMPT:
287 .ASCID \How many simulated user loads do you want [!UL]? \
                                                288 REPORT_PROMPT:
289 .ASCID \Do you want Long or Short report format [Long]? \
                                                290 START_MESSAGE: 291 .ASCID \!/UETP starting at !%D with parameters:\
                                                             .ASCID \ phases\
65 73 61 68 70 20 00000446'010E000
                                                294 LONG_MSG:
```

```
UE
```

```
VAX/VMS UETP USER INTERFACE PROGRAM 2
Read-Only Data
UET1N1T00
V04-001
                                                          .ASCID /, long report./<CR><LF>
                                                  SHORT_MSG:
.ASCID /, short report./<CR><LF>
                                                  DUMP_MSG_PTR:
                                                                              ; $PUTMSG MSGVEC for load calc msgs
                                                                  UÉTPS_TEXT!STSSK_SUCCESS
                                                          . ADDRESS BUFFER_PTR
                                                  DUMP_MSG1:
.ASCID \!/The default number of loads is the minimum result of!/!/\-
                                                        1) CPU_SCALE * ((MEM_FREE + MEM_MODIFY) / (WS_SIZE * PER_WS_INUSE))!/\-
                                              308
                                                        \ !AS * ((!8UL + !10UL) / (!7UL * !4AS)) = !UL!/\
                                              309 DUMP_MSG2:
310 .ASCID \2) Free process slots
                                                                                                                                   1-
                                                                    = !UL!/!/\-
                                              311
  67
73
75
66
65
            20 61 67 73 73 20 1
                                                        \3) free page file pages / Typical use of page file pages per process!/\-
                                              313
                                                         \!23UL / !42UL = !UL!/\
                                             314
315 LOGINOUT:
316 ASCID /SYS$SYSTEM:LOGINOUT.EXE/
                                                                                             Name of login image
                                                  OFFSET:
                                                                                            : Offset table
                                                           .BLKB PRIV_CNT+QUOT_CNT
                            00000648
                                                                                           : Results expected table
```

```
VAX/VMS UETP USER INTERFACE PROGRAM

Read-Only Data
UETINITO0
V04-001
                                                                                              16-SEP-1984 00:22:25 YAX/VMS Macro V04-00 Page 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2
                                         Read-Only Data
                                                             NAM_PTRS: BLKL PRIV_CNT+QUOT_CNT
                                   000006E7
                                                                                                                 : Name pointer table
                                   00000783
                                                                        .BLKL PRIV_CNT+QUOT_CNT
                                                             NAME_TBL:
                                                                                                                 : ASCIC name table
                                  00000624
00000648
000006E7
00000783
                                                                        PC1 = OFFSET
PC2 = EXPECTED
PC3 = NAM_PTRS
PC5 = .
                                                                        ITMENT ALLSPOOL , 04, 0 : Privilege entries
                                  00000624
                                                                                                    ; Bit of priv or quota to check
                                  0000064B
00000000
000006E7
00000783°
                                                                        LONG 0
=PC3
ADDRESS PC5...
                                                                                                    ; 0 results
                                                                                                     ; Address of priv or quota ASCIC ALLSPOOL
                                                                        .=PC5...
                                                             ALLSPOOL:
                                                                                                                    ; Ascic ALLSPOOL
                                                                        ASCIC /ALLSPOOL/
           4C 4F 4F 50 53 4C 4C 41 00°
                                                                        .NLIST MEB
ITMENT BUGCHK
ITMENT BYPASS
                                                                         ITMENT CMEXEC
                                                                         TMENT CMKRNL
                                                                         ITMENT DETACH
                                                                         TMENT EXQUOTA
                                                                         THENT GROUP
                                                                                               03.
07.
11.
                                                                         ITMENT GRPNAM
                                                                        ITMENT LOG TO
                                                                         ITHENT MOUNT
                                                                        ITMENT NETMBX
                                                                                               1A,
                                                                         THENT SETPRI
                                                                         THENT
                                                                         THENT
                                                                                 SYSGBL
                                                                         ITMENT
                                                                         ITHENT
                                                                                 SYSPRV
                                                                         TMENT
                                                                                 TMPMBX
                                                                        I THENT
I THENT
                                                                                 VOLPRO
                                                                        ITMENT ASTLM
ITMENT BIOLM
ITMENT CPULIM
                                                                                                                 ; Quota entries
                                                                        ITMENT ENGLA
ITMENT DIOLM
ITMENT FILLM
```

```
UETINITOO
V04-001
```

```
VAX/VMS UETP USER INTERFACE PROGRAM Read-Only Data
                                                                                                                                         VAX/VMS Macro V04-00
[UETPSY.SRC]UETINITOO.MAR; 2
                         Read-Only Data
                                                                    ITMENT PGFLQUOTA,
ITMENT PRCLM
ITMENT TQLM
                                                                                                   07. 10000
08. 8
09. 20
                                                     GETSYI_ITMLST:
                                                                                                                             ; $GETSYI arg list for...
.WORD 4.SYIS_SID
.ADDRESS SID 0
.WORD 4.SYIS PAGEFILE_FREE
.ADDRESS PAGE_SIZE,0
.LONG 0
                                                                                                                             : ... SID register ...
                                                                                                                             : ...space remaining in page file(s)
                                               377789012345678901
377789012345678901
                                                        NOTE: The code which searches CPU tables should limit itself to looking at PR$ SID TYPMAX (+1, to include illegal or unknown entries) entries. In order to prepare for planned CPUs though, we define a constant, CTT LENGTH, based on what we know is down the road. This constant in the code must also be patched if entries for new CPUs are patched in.
                                                        Negative entries in the following tables apply to CPUs for which there is no explicit CPU type defined, e.g., tightly coupled, multiple CPU configurations such as the 11/782, or jacked up CPUs like the 11/785.
                                                     No negative entries for this table CPU_TYPE_TABLE:
BYTE 0
BYTE PR$_SID_TYP780
                                                                                                                                 Table of known CPU types
                           0010234567
                                                                                                                                 Illegal or unknown type
                                               392
393
                                                                                  PR$ SID TYP780
PR$ SID TYP750
PR$ SID TYP730
PR$ SID TYP790
                                                                                                                                 STAR
                                                                    BYTE
                                                                                                                                 COMET
                                                                    BYTE
BYTE
BYTE
                                  08AD
                                                                                                                                 NEBULA
                                                                                                                                 VENUS
                                               396
397
                                                                                                                                SCORPIO (reserved)
NAUTILUS (reserved)
SEAHORSE I
                                  0880
                                                                     BYTE
                                                     BYTE PR$ SID TYPUV2

CTT_LENGTH = .-CPU_TYPE_TABLE
                                                                    BYTE
                                  0881
                                  08B2
                                                                                                                                microVAX chip
Item count of known CPUs + unknown
                00000009
                                  08B
                00000885
                                                                                                                                Expansion room for new CPU's
                                                     ; End of CPU_TYPE_TABLE
                                                        Negative entries for CPU_NAME_TABLE .SLKA 9
                000008D9
000009C7'
000009C0'
                                                                    .SLKA
                                                                                                                                Expansion for new CPU configurations
                                                                    ADDRESS A787
                                                                                                                                Dual SUPERSTAR
                                                                                                                                SUPERSTAR
                                                                     ADDRESS A782
                                                                                                                                ATLAS
                                                     CPU_NAME_TABLE:
                                                                                                                                CPU names address table
                0000096D
00000975
00000983
0000098A
0000098F
00000997
000009A0
                                                                   ADDRESS UNKNOWN_CPU
ADDRESS A780
ADDRESS A750
ADDRESS A730
ADDRESS A8600
ADDRESS ASCORPIO
ADDRESS ANAUTILUS
ADDRESS AUVI
                                                                                                                                 Illegal or unknown CPU type
                                                                                                                                STAR
                                                                                                                                NEBULA
                                                                                                                                VENUS
                                                                                                                                SCORPIO
                                                                                                                                NAUTILUS
                                                                                                                                SEAHORSE I
                                  0905
0909
0911
0911
0911
                                                                     ADDRESS AUV2
                                                                                                                                microVAX chip
                 00000911
                                                                      BLKA
                                                                                                                                Expansion room for new CPUs
                                                        End of CPU_NAME_TABLE
                                                         Negative entries for CPU_SCALE_TABLE
                00000935
                                                                    BLKF 9
                                                                                                                                Expansion for new CPU configurations
                                                                                                                                Dual SUPERSTAR
```

JETINITOO V04-001							V/ Re	K/VMS UETP					16-SEP-1984 12-SEP-1984	00:2	2:25 y 1:07 C	AX/VMS Macro V04-00 PEUETPSY.SRCJUETINITOO.MAR;2	ige 11
							00406 00406 00406 00406 00406 00406 00406	0941 0945 0949 0949 0940 0951 0955 0959 0961	422890123456789 44231456789	CPU_SCA	FLOAT	1.5 1.4 1.0 0.8 0.5 1.0 1.0 1.0 1.0 1.0			STAR COMET NEBULA VENUS SCORPI NAUTIL SEAHOR microv	to balance loads vs CPU perf l or unknown CPU	
	4E	57	4F	4E	48	4E	55 (096D	440		N_CPU:	/UNKNOWN		*	Illega	l or unknown CPU	
							31 (0975	442	A780:	.ASCIC	\11/780\		*	STAR		
							31 (097C	444	A750:	.ASCIC	\11/750\		:	COMET		
								5 0976		A730:		\11/730\		*	NEBULA		
							31 (098A		A8600:		\8600\		;	VENUS		
	46	49	50				38 (098A 098F 098F	450	ASCORP	10:	\SCORP10		i	SCORPI	0	
53							53 0 4E 0	0997		ANAUTI	LUS:	\NAUTILU:		:	NAUTIL	us	
							4E 0	0997 09A0		AUV1:		\SEAHORS!		:	SEAHOR	SE I	
49 20 45								09A0 09AB		AUV2:				;	microV	AX chip	
8 63 20 58	41	20	6F	12	65	69	6D 0	09AB 09B7	457		. ASCIC	\microVA	t chip\				
		32	38	37	2F	31	31 (0989	458 459	A782:	.ASCIC	\11/782\			ATLAS		
							31 (0900	460 461	A785:	.ASCIC	\11/785\		å	SUPERS	TAR	
							31 (0907	462 463	A787:	.ASCIC	\11/787\		:	Dual S	UPERSTAR	
							000	0907 090E 090E 090E 0900	464 465 466 467 468	USER_L		12 JPI\$_USEI BUFFER	RNAME		GETJPI	item list for USERNAME and b	IS size

12 (4)

```
VAX/VMS UETP USER INTERFACE PROGRAM
Read-Only Data
```

```
16-SEP-1984 00:22:25 YAX/VMS Macro V04-00 12-SEP-1984 15:11:07 EUETPSY.SRCJUETINITOO.MAR;2
0000098B°
0004
0402
000009AF°
00000000
                 0906
090A
090C
090E
09E2
09E8
                             469
470
471
473
474
475
476
477
478
479
                                                 . LONG
                                                              OUTLEN
                                                 . WORD
                                                              JPIS WSQUOTA
                                                 . WORD
                                                 . LONG
                                                  . LONG
0000000

0409

00000983

00000000

0004

0310

0000987
                                                 . WORD
                                                              JPIS ASTLM
JPI ASTLM
                                                 . WORD
                 09EA
09EE
09F2
09F4
                                                 . LONG
                                                 . LONG
                                                 -WORD
                                                              JPIS BIOLM
                                                 . WORD
                 09F6
09FA
09FE
                             . LONG
                                                 . LONG
       0004
031A
                                                 . WORD
                 0000
0000
0000
                                                              JPIS BYTLM
                                                 . WORD
000009BB'
00000000
0004
040D
00009BF'
00000000
0004
0320
000009C3'
                                                 . LONG
                                                 .LONG
                 0A0A
0A0C
0A0E
0A12
0A16
                                                 . WORD
                                                              JPIS CPULIM
                                                 . WORD
                                                 . LONG
                                                 . LONG
                                                 . WORD
                 0A18
                                                 . WORD
                                                              JPIS_ENGLM
                 0A1A
                                                              JPI_ENGLM
                                                 . LONG
                 0A1E
0A22
0A24
0A26
                                                 . LONG
 0004
0313
000009c7°
                                                 . WORD
                                                              JPIS DIOLM
                                                 . WORD
                                                 . LONG
 00000000
                 ASA0
                                                 . LONG
        0004
                                                 WORD
 040F
000009CB
                                                 . WORD
                                                              JPIS_FILLM
                                                              JPI_FILLM
                                                 .LONG
                                                 . LONG
       0004
                                                  . WORD
040E
000009CF'
00000000
0004
0408
000009D3'
                                                              JPI$_PGFLQUOTA
                                                 . WORD
                                                 . LONG
                                                              JPI_PGFLQUOTA
                 0A42
                                                 . LONG
                 0A46
                                                 . WORD
                 0A48
                                                 . WORD
                                                              JPIS_PRCLM
                                                              JPI_PRCLM
                 OA4A
                                                 . LONG
                 0A4E
0A52
0A54
0A56
0A5A
0A5E
0A62
                                                 . LONG
0004
0410
000009b7'
00000000
0008
0400
                                                  . WORD
                                                 . WORD
                                                              JPIS TOLM
                                                 . LONG
                                                 . LONG
                                                  . WORD
                                                              JPIS_CURPRIV
PRIVS
                                                  . WORD
 00000000
00000000
00000000
                                                  .LONG
                  0A66
                                                 . LONG
                 0A6A
0A6E
                                                 . LONG
                  0A6E
                                   SYM_NAM_TABLE: ; Names of parameters in local symbol table
                                                                                                      ; If defined they represent:
                  0A6E
                  QA6E
                                    SYM_P1:
                                                                                                      ; phase
                                                  .WORD P1_LEN, 0
0000 0002
                                                 ADDRESS PT_NAM
 00000A8E *
                                   SYM_P2:
                                                                                                     : pass count
```

```
UETINITO0
V04-001
                                              VAX/VMS UETP USER INTERFACE PROGRAM
                                                                                                                                         VAX/VMS Macro VO4-00
[UETPSY.SRC]UETINITOO.MAR; 2
                                                                                                                                                                                          13
                                              Read-Only Data
                                      0000 0002'
                                                                                 .WORD P2_LEN,O .ADDRESS P2_NAM
                                                                     SYM_P3:
                                                                                                                               : number of loads
                                      0000 0002°
                                                                                  WORD
                                                                                           P3_LEN.O
                                                                                 . ADDRESS P3_NAM
                                                                     SYM_P4:
                                                                                                                               ; long or short report
                                      0000 0002°
                                                                                  WORD P4 LEN.O
                                                                                 . ADDRESS PT_NAM
                                                                     P1_NAM:
                                       31 50 0000002
                                                                                   ASCII /P1/
                                                                                 P1_LEN = .-P1_NAM
                                                                     P2_NAM:
                                       32 50
                                                                                   ASCII /P2/
                                                                                 P2_LEN = .-P2_NAM
                                                                     P3_NAM:
                                       00000002
                                                                                   ASCII /P3/
                                                                                 P3_LEN = .-P3_NAM
                                                                     P4_NAM:
                                       00000002
                                                                                  ASCII /P4/
                                                                                 P4_LEN = .-P4_NAM
                                                                     PHASE_PROMPT:
                                                                                                                                  See if full UETP run is wanted
                         00000A9E 010E00000
22 4C 4C 41 22 20
73 65 73 61 68 70
45 53 42 55 53 22
20 3F 5D 4C
                                                     0A96
0AA4
0AB0
0ABC
0AC8
    75
50
61
41
             0A
45
72
20
                 0A
55
6F
22
                      0D
20
20
54
                                                                                 .ASCID <CR><LF><LF>\Run 'ALL' UETP phases or a 'SUBSET' [ALL]? \
                                                                     COMMA_BLANK:
                                                                                                                               : Separator between phase names...
                                       50 SC 00.
                                                                                 .ASCIC \, \
                                                                                                                               ; ... for WHICH_PHASE $FAOL string
                                                      OACI
                                                                     NEW_LINE:
                                                                                                                               : Continue list of phase names...
; ...on a new line
                                   09 0A 0D 00'
                                                                                 .ASCIC <CR><LF>\
                                                     WHICH_PHASE1:
                                                                                                                               : Allow selection of UETP phases
                                                                                 .ASCID -
                         00000ADB 010E0000 0 20 6E 61 63 20 75 6F 20 65 6E 6F 20 68 74 20 66 6F 20 20 67 6E 69 77 6F 21 2F 21 3A 29
    59
73
72
65
41
        2F
6F
6F
73
28
             21
6F
6D
66
61
23
                 2F
68
20
68
21
                                                                                 \!/!/You can choose one or more of the following phases:!/!/!_!#(AC)\
                      21
63
72
65
70
5F
65
65
73
43
                                                                     WHICH_PHASE2:
29 73 28 65 73 61 68 50 0A 0A 20
                                                                                 .ASCIC <CR><LF><LF>\Phase(s): \
                                                                        We here take advantage of the Run Time Library $LIB_KEY_TABLE's internal code so that we may generate descriptors of the keyword strings in parallel with generating the strings and their pointers. The sequence
                                                                        of .ERROR statements below should guard us against internal changes to
                                                                        the documented macro.
```

UET VO4

```
VAX/VMS UETP USER INTERFACE PROGRAM
Read-Only Date
UETINITO0
V04-001
                                                                                                                   16-SEP-1984 00:22:25
12-SEP-1984 15:11:07
                                                                                                                                                      VAX/VMS Macro V04-00
LUETPSY.SRCJUETINITOO.MAR: 2
                                                   Read-Only Data
                                                                           :LIB$$K_NPAIRS counts entries in $LIB_KEY_TABLE
.MACRO $$LIB_KEY_ENTRY STRING, VALUE
.IF EQ LIB$$A_HERE+1 ; First time expanding this macro, define new stuff
                                                          IF EQ LIBSSA HERE+1 ; First time expanding this macro, (
UETPSSA THERE = LIBSSA STRLOC
LIBSSA STRLOC = LIBSSA STRLOC + <8 * LIBSSK NPAIRS>
                                                                            .ENDC : EQ LIBSSA_HERE+1
                                                                                                      . ADDRESS
                                                                                                                              LIBSSA_STRLOC
                                                                                                      LONG
                                                                                                                               VALUE
                                                                                        LIBSSA HERE:
.=UETPSSA THERE
KEY_'STRING' DESC:
.WORD
                                                                                                                               %LENGTH(STRING),0
                                                                                        ADDRESS
UETP$$A THERE=.
.=LIB$$Ā STRICC
.ASLIC
                                                                                                                              LIBSSA_STRLOC + 1
                                                                                                                                                                     : 1 char into ASCIC str
                                                                                                                              \STRING\
                                                                                        LIBSSA STRLOC=. .=LIBSSA HERE
                                                                      5867
588
589
590
591
593
                                                                            . ENDM
                                                                                                     $$LIB_KEY_ENTRY
                                                                            LIB$$A_HERE=-1
SELECT_PHASE:
                                          FFFFFFFF
                                                                                                                                            Flags first $$LIB_KEY_ENTRY expansion allow user to select between ALL...
                                                                                        SLIB_KEY_TABLE < -

ZALL, 0> -

<SUBSET, 1> -
                                                                                                                                           ; ...phases or a subset of them
                                                                      594
                                                                                         > ; End of $LIB_KEY_TABLE
                                                                     595
596
597
598
599
                                                           085C
                                                                            LIBSSA_HERE=-1
PHASE_TABLE:
                                          FFFFFFF
                                                           085C
                                                                                                                                           ; Flags first $$LIB_KEY_ENTRY expansion
                                                          085C
085C
085C
                                                                                        $LIB_KEY_TABLE < -

<<DEVICE>,>-
                                                           DB5C
                                                                      600
                                                                                                     <<LOAD>,>-
                                                                     601
                                                           085C
                                                                                                     <<DECNET>,>-
                                                           085C
                                                                                                     <<CLUSTER>,>-
                                                           085C
                                                                                        > : End of $LIB_KEY_TABLE
                                                           0888
                                                                      604
                                                                      605
                                          00000001
                                                           0888
                                                                            .MDELETE
                                                                                                     $$LIB_KEY_ENTRY
                                                                                                                                           : Remove our own version of the macro
                                                                            .IF NDF UETP$$A_THERE .ERROR : Thi
                                                           0888
                                                                      606
                                                                                                        This program depends on the existence of $$LIB_KEY_ENTRY within the $LIB_KEY_TABLE definition. It must be fixed to use some new definition so that it can generate
                                                           0888
                                                                     607
                                                           0888
                                                                      608
                                                                                         ERROR
                                                           0888
                                                                      609
                                                                                         ERROR
                                                           0888
                                                                      610
                                                                                          ERROR
                                                                           .ERROR ; tables parallel to the ones from .ERROR ; $LIB KEY TABLE.
.ENDC ; NDF UETP$$A_THERE
                                                           0888
                                                                      611
                                                           0888
                                                           0888
                                                           0888
                                                           0888
                                                                            UETPPHASE:
                                                                                                                                           : Logical name for UETP.COM phase names
48 50 50 54 45 55 000008c3'010E0000 45 53 41
```

.ASCID \UETPPHASE\

0888

0809

```
UETINITO0
V04-001
                                       VAX/VMS UETP USER INTERFACE PROGRAM Read/Write Data
                                                                                                                     VAX/VMS Macro VO4-00
[UETPSY.SRC]UETINITOO.MAR; 2
                                       00000000
0000
0000
0000
0000
0004
0008
0014
                                                                     .SBTTL
.PSECT
                                                                               Read/Write Data
RWDATA, WRT, NOEXE, PAGE
                                                           WELCOME:
                                0000002F 0000008 0A 0A 0A 0D 6F 74 20 54 45 55 20
                                                                     .LONG WELCOML
.ADDRESS .+4
.ASCII <CR><LF><LF><LF>
                                                                                                             Welcome to VAX/VMS UETP Version \
                                                           VERSION:
                                 00000035
                                                                     .BLKB
                                 0A 0D
0000002F
                                                                               <CR><LF>
                                                                     WELCOML = .-WELCOME-8
                                                       630 TTCHAN:
                                                                                                             : Channel for the terminal
                                      0000
                                                                      - WORD
                                                           ERROR_COUNT:
                                                                                                             : Error count
                                 00000000
                                                                     . LONG
                                                           FAO_BUF:
                                                                                                             : FAO output string descriptor
                                0000 012C
0000004D
                                                                     .WORD TEXT BUFFER, 0 .ADDRESS BUFFER
                                                      640 BUFFER_PTR:
                                                                                                             ; Fake .ASCID buffer for misc. strings
                                0000 012C 000004D'
                                                                     .WORD TEXT BUFFER, O .ADDRESS BUFFER
                                                                                                             : A word for length, a word for desc.
                                                           BUFFER:
                                                                                                             ; FAO output and other misc. buffer
                                 00000179
                                              004D
                                                                     .BLKB TEXT_BUFFER
                                                           PASS_MSG:
                                                                                                             ; Used in startup msg
20 4C 55 21 20 2C 00000181'010E0000' 73 65 73 73 61 70
                                                                     .ASCID \, !UL passes\
                                                      650 LOAD_MSG:
                                                                                                             : More for startup msq
                  2C 00000195'010E0000'
53 25 21 64 61 6F 6C
20 40 55 21 20
                                                                     .ASCID \, !UL load!%S\
                                                           PARAM_MSG:
                                                                                                               Here is where the parameter portion
                                0000 0000
                                                                     - WORD
                                                                              0.0
                                                                                                             : ...of the startup msg gets assembled
                                 000001AA*
                                                                      ADDRESS PARAM BUF
                                                           PARAM_BUF:
                                 00000206
                                                                     .BLKB TEXT BUFFER
                                                           LOADS_DESC:
                                                                                                             : Loads general purpose desc.
                                 00000000
                                                                     .LONG
                                 00000000
                                                                     . ADDRESS 0
                                                           CPU_SCALE_DES: .XSCID /
                                                                                                             ; Descriptor for CPU scale value
       20 20 20 20 000002E6'010E0000'
                                                           WS_INUSE_DES:
                                                                                                             ; Descriptor for percent of WS in use
       20 20 20 20 000002F2'010E0000'
```

; Storage for percent of WS in use

WS_INUSE:

UET VO4

```
UETINITO0
V04-001
```

```
VAX/VMS UETP USER INTERFACE PROGRAM
                                                                                      VAX/VMS Macro V04-00
EUETPSY.SRCJUETINITOO.MAR: 2
               Read/Write Data
          CCCD3F4C
                                          .LONG
                                                   PER_WS_INUSE
                                                                              ; This is a floating point constant
                                 DISK_BUFFER:
                                                                              : System disk name
         000000FF
00000302
00000401
                                          . LONG
                                                   LOGNAM_SIZE
                                           . ADDRESS . +4
                                           BLKB
                                                   LOGNAM_SIZE
                                 DEVBUF :
                                                                              : Gets device class of SYS$COMMAND...
          00000405
                                           .BLKL
                                                                              : ...from $GETDVI
                                 MSG_BLOCK:
                                                                              : Auxiliary $GETMSG info
          00000409
                                           BLKB
                                 PAGE_COUNT:
                                                                              ; Floating point format memory page count
          00000000
                                           .FLOAT 0
                                 PAGE_BUF:
                                                                              : String storage for memory size
         00000005
00000415°
0000041A
                                           . LONG
                                          ADDRESS .+4
                                 QUAD_STATUS:
                                                                              ; IOSB for misc. system services
00000000 00000000
                                          .QUAD
                            692
                                 STATUS:
                                                                              ; Status value on program exit
                             694
          00000000
                                          .LONG
                                 EXIT_DESC:
                                                                              : Exit handler descriptor
                                          LONG 0
          00000000
         0000007A°
00000001
00000422°
                                          .ADDRESS EXIT_HANDLER .LONG 1
                             699
700
                                          . ADDRESS STATUS
                                 ARG_COUNT:
                                                                              ; Argument counter used by ERROR_EXIT
                                          .LONG 0
          00000000
                                 FLAGS:
                                                                                Miscellaneous flags.
                00
                                          BYTE
                                                                              : See Equated Symbols for definitions
                                 SYM_VAL_TABLE:
                                                                              ; Buffers for parameters P1-P4
                                 P1_DESC:
          00000000
0000045B
                                           LONG
                                          . ADDRESS P1_BUF
                                 P2_DESC:
          00000000
000055A
                                           .LONG
                                          . ADDRESS P2_BUF
                                 P3_DESC:
          00000000
                                           LONG 0
                                          . ADDRESS P3_BUF
                                 P4_DESC:
          00000000
                                           .LONG
                                          . ADDRESS P4_BUF
                                 P1_8UF:
          0000055A
                                           .BLKB MAXSYM_SZ
                                 P2_BUF:
          00000659
                                                   MAXSYM_SZ
                                           .BLKB
                                 P3_BUF:
```

```
VAX/VMS UETP USER INTERFACE PROGRAM Read/Urite Data
UET1N1T00
V04-001
                                                                                  16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2
                                                                                                                                                 17 (5)
                              00000758
                                                               .BLKB
                                                                        MAXSYM_SZ
                                                      P4_BUF:
                              00000857
                                                               .BLKB
                                                                        MAXSYM_SZ
                                                      ANSWER:
                                                                                                   : Answer buffer desc
                              0000012C
                                                               .LONG TEXT_BUFFER
                                                               . ADDRESS .+4
                              00000988
                                                               .BLKB TEXT_BUFFER
                                                      OUTLEN:
                                                                                                   ; Output string desc
                              00000000
0000085F*
                                                               .LONG 0
                                                               . ADDRESS ANSWER+8
                                                      CPU_SCALE:
                                                                                                   : This CPU's scale factor
                              00000000
                                                                FLOAT 0.0
                                                      PASS_COUNT:
                                                                                                   : Total pass count
                              00000000
                                                                LONG
                                                      LOAD_COUNT:
                                                                                                   : Total load count
                              00000000
                                                               .LONG
                                                      VECTOR:
                                                                                                      Message vector for $PUTMSG
                                   0003
                                                                . WORD
                                                                                                      Arg count - total number of longwords
                                   0001
                                                                        *B0001
                                                                WORD
                                                                                                      Message flag
                              00741130
                                                                . LONG
                                                                        UETPS_TEXT
                                                                                                      Message ID
                                   0001
                                                                . WORD
                                                                                                      FAO arg count
                                                                WORD
                                                                                                     New message flags
                                                      MSG_DESC:
                              00000045
                                                               .LONG
                                                                        BUFFER_PTR
                                                                                                   ; Address of message descriptor
                                                      WS_SIZE:
                                                                                                   : GETJPI results list
                              00000000
                                                                LONG
                                                      JPI_ASTLM:
                              00000000
                                                                LONG
                                                      JPI_BIOLM:
                              00000000
                                                                . LONG
                                                      JPI_BYTLM:
                              00000000
                                                                LONG
                                                      JPI_CPULIM:
                              00000000
                                                                .LONG
                                                      JPI_ENGLM:
                              00000000
                                                                LONG
                                                      JPI_DIOLM:
                              00000000
                                                                LONG
                                                      JPI_FILLM:
                              00000000
                                                                LONG
                                                      JPI_PGFLQUOTA:
                              00000000
                                                                LONG
                                                      JPI_PRCLM:
                              00000000
                                                                .LONG
                                          09D7
09D7
09DB
09DB
09E3
                                                      JPI_TQLM:
                              00000000
                                                               LONG
                                                      PRIVS:
                    00000000 00000000
                                                                GAUP.
                                          09E3
                                                      MEM_SIZE:
                                                                                                   : Total physical memory size in pages
```

. LONG

18 (5)

	VAX/ Read	VMS UETP (ISER INTERFACE PRO	GRAM 16-SEP-1984 12-SEP-1984	00:22:25 VAX/VMS Macro V04-00 Page 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2
	00000000	0957 71	MEM_FREE:	0	; Physical memory not being used now
	00000000	09EB 71 09EB 71 09EF 79 09EF 79	MEM_MODIFY:	0	; Physical memory on the modified list
	00000000	09EF 79	SWAP_SIZE:	0	; Count of free process entry slots
	00000000	09F3 79	PAGE_SIZE:	0	; Secondary storage for paging in pages
	000009fB	09F7 79 09F7 79 09FB 79 09FB 80 09FB 80 09FB 80 09FB 80 09FB 80 09FB 80	.BLKL .BLKL .BLKL	1	; \$GETSYI returns SID register here
		09FB 80)] : CLI call back	request descriptor	
	05 000A 01	09FB 80 09FC 80 09FE 80	CLI call back CLI_REQ_DESC: BYTE WORD BYTE QUAD	CLISK_CLISERV CLISK_GETSYM CLISK_LOCAL_SYM	; Get local sym is what we want to do
00000000	00000000	09FF 80	07 .QUAD 08 .QUAD	8	; Desc of symbol name - CLISQ NAMDESC ; Desc of returned value -CLISQ_VALDESC

UETINITO0 V04-001

UE1 VO4

002D ° CF

0422°CF

16-SEP-1984 00:22:25 12-SEP-1984 15:11:07 VAX/VMS Macro VO4-00 EUETPSY.SRCJUETINITOO.MAR; 2

Main Program
UETINITOO, EXE, NOWRT, PAGE 00000000 .DEFAULT DISPLACEMENT, WORD

UETINITOO queries the user for UETP run-time information and welcomes the user to UETP. The user is told what CPU type, memory configuration, and system disk type he/she is running on. The user is prompted for the number of complete passes he/she wants and if he/she responds with a carriage return the default is one pass. The user is prompted for the number of parallel simulated users that he wishes to have used in the load test portion of the UETP. If he/she responds with a carriage return UETINITOO calculates an appropriate value for the configuration that is being used and informs the user as to what that value is. The user is prompted for the report format (long or short) that is desired. If a carriage return is the response, then long report format is used. carriage return is the response, then long report format is used. The UETP.LOG file is first created in this program as well. The user is allowed to choose to run the entire UETP or a subset of its phases, with the default being the entire UETP.

OBSB'CF DE 001B 00000000 GF 0000 CF 09AB CF 0008'CF 0000°CF 004D 'CF

0000

.ENTRY UETINITOO. ^M<> : Entry mask

MOVAL SSERROR, (FP)
\$SETSFM_S ENBFLG = #1
\$DCLEXH_S DESBLK = EXIT_DESC

Declare exception handler Enable system service failure mode Declare an exit handler : Create the log file

\$CREATE FAB = LOG_FAB, -ERR = RMS_ERROR \$CONNECT_RAB = LOG_RAB, -ERR = RMS_ERROR

MOVAL WELCOME ASG DESC SPUTMSG'S MSGVEC = VECTOR, -

G^SYS\$GQ_VERSION, VERSION; Get the system version number Message desc Go ahead and output msg Output it to log file as well Set the process name

\$SETPRN_S PRCNAM = TEST_NAME SGETJPI_S ITMLST = USER_LIST ; CMPC3 ACNT_NAME, ACNT_NAME+8,-; BUFFER

ACTRIN = ACTRIN

Get the username, privs and quotas Are we in the right account?

108 BEQL PUSHAL WRONG_ACCOUNT PUSHL PUSHL #UETP\$_TEXT!STS\$K_ERROR PUSHL MOVL #SS\$_BADPARAM,STATUS BRW ERROR_EXIT

...else report and exit Arg count Signal name Parameter count Set the exit status Give the user the last rights

BR if no ...

SGETDVI_S DEVNAM = SYSSCOMMAND,-IOSB = QUAD_STATUS,-

Get the name of ... ; ...device which may abort test

ITHLST = COMMAND_ITHLST BLBS QUAD STATUS, 20\$
MOVZUL QUAD STATUS, R2
SGETMSG_S MSGID = R2, MSGLEN = BUFFER_PTR, -

BR if all went OK We had a problem. Extract error code Get message text associated with error

105:

041A'CF

01E3'CF

0070

00741132

00000000°8F

E8

13 DF DD DD DD DD DD DD

21 (7)

BUFADR = FAO_BUF 0045 °CF PUSHAQ BUFFER_PTR ; Let user know what went wrong... PUSHL 00741132 01AF WUETPS TEXT!STSSK ERROR COMMAND_DVI_FAILED PUSHL 7FDDDDD191288 PUSHAQ PUSHL 00741132 PUSHL #UETP\$_TEXT!STS\$K_ERROR PUSHL ...and bail out Were we invoked from a terminal? BR if not ERROR EXIT BRW 0401 'CF 00 205: CMPB BNEQ BISB2 #TERMINALM, FLAGS : Set terminal flag \$ASSIGN_S DEVNAM = BUFFER_PTR, - ; Set up for CTRL/C ASTs if we were CHAN = TICHAN 043A'CF 04 = TTCHAN, - : Enable CTRL/C ASTs... = #10\$ SETMODE! IOSM_CTRLCAST, -= CCASTHAND SQIOW_S CHAN 894 895 897 897 897 901 901 903 906 907 908 909 FUNC PUSHAL UOOF 'CF ; ...and tell the user... DD DD FB PUSHL #UETPS ABORTC!STSSK_SUCCESS #3,G^LTB\$SIGNAL ; . 0074832B PUSHL 00000000 GF CALLS ; ...how to abort gracefully 305: STRNLOG_S LOGNAM = MODE, -RSLLEN = BUFFER_PTR, -; Get the run mode 014C 014C 0165 0169 016D 0174 RSLBUF = FAO_BUF 0045'CF 7F 7F PUSHAQ BUFFER_PTR ; Convert to upper case BUFFER PTR #2,G*STR\$UPCASE PUSHAQ 00000000 GF FB 39 02 CALLS 002C'CF 0045'CF 0030'DF MATCHC DUMP, aDUMP+4,-: Are we to run in dump mode? BUFFER_PTR, BUFFER 004D 'CF 017B 12 0181 ; BR if not ; Else set the flag bit BNEQ 043A CF BISB2 #DUMPM, FLAGS 911 358: 0188

```
UETINITO0
V04-001
                                                  VAX/VMS UETP USER INTERFACE PROGRAM
                                                                                                                   16-SEP-1984 00:22:25
12-SEP-1984 15:11:07
                                                                                                                                                     VAX/VMS Macro V04-00
CUETPSY.SRCJUETINITOO.MAR; 2
                                                  Main Program
                                                                     911456789125456789
                                                                                        Go through this process' privileges and quotas. If something
                                                                                        nonstandard shows up, give a warning.
                                            52
                                                    D4
                                                                                                     R2
                                                                                        CLRL
                                                                                                                                           : Init an index variable
                                                                                                    PRV STR R6
OFFSET[R2] R4
R4 #1 PRIVS R3
EXPECTED[R2],R3
                                02B3'CF
0624'CF42
01 54
                                                    DE
9A
EF
D1
10
F2
                            56
                                                                                         MOVAL
                                                                                                                                              List non-standard privs first 
Get the offset of the priv
                                                                            405:
                                                                                         MOVZBL
                    0908 CF
                                                                                                                                             Get the priv
Check it
Br if bad
             53
                                                                                        EXTZV
                                 064B'CF42
                                                                                        CMPL
                                                                                        BSBB
                               E7 52
                                                                                        AOBLSS
                                                                                                     #PRIV_CNT,R2,408
                                                                                                                                              Do all privs
                                 028D'CF
0624'CF42
064B'CF42
                                                    DE 9A D1 10 F2
                                                                                                     QUO STR.R6
OFFSET[R2].R4
EXPECTED[R2].JPI_ASTLM[R4]; Check it 808
Br if bad
                            56
                                                                                                                                             Now we're listing non-standard quotas
Get the offset of the quota
                                                                                         MOVAL
                                                          60$:
                                                                                         MOVZBL
              09B3'CF44
                                                                                        CMPL
BSBB
                               EB 52
                                                                                                     #PRIV_CNT+QUOT_CNT,R2,60$; Do all quotas
                                                                                        AOBLSS
                     17 043A'CF 03 0250'CF 00010001 8F 00741130 8F
                                                    ES
DF
DD
DD
FB
11
                                                                                                                                             Only print the ending message once push the message address
                                                                                        BBCC
                                                                                                     #PRIV_PRNTV,FLAGS,70$
                                                                                                     ENDSTR
                                                                                        PUSHAL
                                                                                                    #AX10001 push the arg count #UETP$ TEXT!STS$K_WARNING; push the signal name #3,G^LIB$SIGNAL; print the ending error message 110$
                                                                     PUSHL
                                                                                        PUSHL
                                                                                        CALLS
                                                                           705:
                                                                                        BRB
                                                                           Subroutine to list non-standard privileges and quotas. 80$: BEQL 100$ : Don't complain
                                                    13
E2
D6
DF
                                                                                        BEQL
                                                                                                                                              Don't complain if priv/quota is OK
                                                                                                    #PRIV_PRNTV,FLAGS,90$
ERROR_COUNT
STRSTR
                        2F 043A'CF
                                                                                                                                              Only print error message header once
                                    0039°CF
0238°CF
                                                                                         INCL
                                                                                                                                              Bump the error count
Push the string address
                                                                                        PUSHAL
                                                                                                                                             Push the arg count; Push the signal name; Finish off arg list...
                              000F0001 8F
00741130 8F
                                                    DD DD DF DD DD
                                                                                        PUSHL
                                                                                                     #^XF0001
                                                                                                    #UETPS_TEXT!STSSK_WARNING
ERROR COUNT
TEST_NAME
# X10002
                                                                                        PUSHL
                                    0039 CF
                                                                                        PUSHL
                                    000F 'CF
                                                                                        PUSHAL
                              00010002
                                                                                        PUSHL
                                                                                                     #UETP$ ERBOXPROC!STS$K_ERROR : ... for error box message #7.6°LIB$SIGNAL : Print the error message
                                                                                        PUSHL
                                            07
                                                    FA
                      00000000 GF
                                                                           905:
                                                                                        SFAO_S
                                                                                                     CTRSTR = CTRSTR,-
                                                                                                    OUTLEN = BUFFER PTR.-
OUTBUF = FAO BUF,-
P1 = NAM_PTRS[R2],-
                                                                                                                = R6
                                                                                                                                              Generate the string
                                                                                        PUSHAL
                                                                                                    BUFFER_PTR
                                                                                                                                              Push the address...
                              00010001
                                                    DD
                                                                                                     #^x10001 ... the arg count...
#UETP$ TEXT!STS$K_WARNING ; ... the signal name...
#3,G^LIB$SIGNAL ... and print the message
Return for further checking
                                                                                        PUSHL
                                                                                                     #^X10001
                                                                                        PUSHL
                                                    FB 05
                      00000000 GF
                                                                                        CALLS
                                                                      961
                                                                           1005:
                                                                                        RSB
```

23

1105:

1205:

1215:

1225:

1405

1010

1019

088 C50 550

AA80

00

00000000° GF

58

00000000

58

0941 'CF48

08E5'CF48

0045 CF

OE 09F7'CF

0993°CF

09AB'CF

01

GF

3A

0039

0039

D4

D5 13 CE

ET CESTS

50

DO

09F7'CF

50

58

Go ahead and output msg Output it to log file as well

figure out the CPU type in preparation for defining the number of load test loads to run. In their wisdom, the engineers who designed closely-coupled CPUs and 'mid-life kicker' CPUs have chosen to keep the same CPU type as the base CPU, but there are other hints to figure out what one is running on. Figuring whether we have a multiple CPU configuration uses the VMS location EXESGL_MP, which indicates the presence of a tightly-coupled, second processor if non-zero. SUPERSTAR sets a bit in the SID register. Note that we don't use the VMS macro, CPUDISP. : See if VMS knows of that CPU... BR to set up for the correct CPU WORD 1408-1208
WORD 1408-1208
WORD 1408-1208
WORD 1408-1208
WORD 1408-1208 COMET NEBULA VENUS SCORP10 NAUTILUS WORD 1405-1205 SEAHORSE I WORD 1405-1205 microVAX chip REPEAT NOP ; fudge so we can patch in new CPUs . ENDR R8 140\$ CLRL : Default value - illegal CPU BRB GAEXESGL_MP TSTL Are we multiprocessing? BR to check SUPERSTAR if not BEQL MNEGL Use a different offset if we are #1,R8 #23,510,140\$ #2,88 G^EXESGL_MP 140\$ We're already correct if 11/780 Set up SUPERSTAR offset MNEGL Are we multiprocessing as well? BR to get scale & text if not Use a different offset if we are TSTL BEQL MNEGL #3,R8 1405 fall into default processing BRB MOVF CPU_SCALE_TABLE[R8],CPU_SCALE

MOVL CPU_NAME_TABLE[R8],R8

\$CMEXEC_S ROUTIN = GET MEM_INFO;
\$FAO_S CTRSTR = SYSTEM,OUTLEN = BUFFER_PTR,-: Save the CPU scale factor Ah! that's what kind of CPU it is Figure various memory limits Generate the string OUTBUF = FAO_BUF,-= R8,=

= MEM_SIZE

ACTRIN = ACTRIN

MOVAL BUFFER PTR, MSG DESC SPUTMSG S MSGVEC = VECTOR, -

UET:

UETINIT00 V04-001

148 W / 1480 # 148 T	 *******	C	4
WAX/VMS UET	INTERFACE	PROGRAM	

16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 25 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (10)

	0347 0347 0347 0347	1031 .+ 1032 . 1033 . 1034 .	Here we call the CLI to get values for local symbols P1-P4. If they are not defined SYSSCLI returns LIBS_NOSUCHSYM and each associated descriptor is left with length zero.
56 09FB'CF 57 0A6E'CF 58 043B'CF 5B 04	D4 0347 DE 0349 DE 034E DE 0353 D0 0358	1037 1038 1039	CERL R9 MOVAL CLI_REQ_DESC,R6 MOVAL SYM_NAM_TABLE,R7 MOVAL SYM_VAL_TABLE,R8 MOVAL SYM_VAL_TABLE,R8 MOVAL #SYMBOL_CNT,R11 ; Loop count ; Symbols found counter ; CLI_request_block ; Parameter names ; Table for returned values ; Loop count
04 A6 87 0C A6 000000000 GF 01 000000000 BF 50 1D 0C A6 18 0C A6 10 B6 10 B6 10 S9 88 0C A6 0C A6 0C A6 0C A6	7D 035B 7C 035F DF 0362 FB 0364 D1 036B 12 0372 B5 0374 13 0377 38 0379 037D 13 037F D6 0381 D0 0383 28 0387 038A C2 038E 0391	1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054	MOVQ (R7)+,CLISQ NAMDESC(R6); Put symbol name desc in req block CLRQ CLISQ_VALDESC(R6); Init return desc PUSHAL (R6); Push address of the req block CALLS #1,G^SYS\$CLI CMPL R0,#SS\$_NORMAL; Did we find it BNEQ 160\$; BR if not TSTW CLISQ_VALDESC(R6); Test for zero length BEQL 160\$; Br if zero length SKPC #^A/ /,CLISQ_VALDESC(R6); BR if only spaces a <clisq_valdesc(+4>(R6)) BEQL 160\$; BR if only spaces INCL R9; Count this one found MOVL CLISQ_VALDESC(R6),(R8)+; Save return length MOVC3 CLISQ_VALDESC(R6); and value a<clisq_valdesc(+4>(R6)); Reset R8 to start of present descriptor</clisq_valdesc(+4></clisq_valdesc(+4>
58 08 C4 58 59 OB O5 043A*CF 02 043A*CF 02	CO 0391 F5 0394 D5 0397 12 0399 E1 0398 03A1 88 03A1 03A6 03A6	1059 1060 1061 1062 1063	ADDL2 #8,R8 SOBGTR R11,150S TSTL R9 BNEQ PHASE BBC #TERMINALV,FLAGS,PHASE BISB2 #PROMPTM,FLAGS #8 move PTR to next value descriptor Repeat until we tried them all Were any symbols defined? BR if we found at least one BR if we are not connected to a terminal -we will use default values No parameters were defined and we are connected to a terminal so set the flag for prompting

```
UETINITO0
V04-001
                                                                                   VAX/VMS UETP USER INTERFACE PROGRAM
                                                                                                                                                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]UETINITOO.MAR; 2
                                                                                                                                                                                                                                                                                                                               Page
                                                                                   Main Program
                                                                                                                1069
1070
1071
1072
1073
1074
1075
1076
1077
1078
                                                                                                                                                 See if the user wants to run the entire UETP or a subset o. its phases. Define a logical name, UETPPHASE, with the result. UETP.COM will use the translation of UETPPHASE to execute the appropriate phase(s).
                                                                                               03AA6C35BBBCCCCDADDD15BBCCCDADDD15BBCCCDADDD15BBCCCDADDD15BBCCCDADDD15BBCCCDADDD15BBCCCDADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADD5BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDADD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCADDD15BBCCAD
                                                                                                                            PHASE:
                                      31 043A'CF 01
                                                                                     E0
B0
13
7F
7F
FB
29
                                                                                                                                                  BBS
                                                                                                                                                                      #PROMPTV, FLAGS, 108
                                                                                                                                                                                                                                          BR if we need to prompt
                                  0988 CF
                                                                                                                                                                                                                                         No prompting, phase is P1 param...but supply default if null
                                                                                                                                                  MOVW
                                                                                                                                                                      P1_DESC, OUTLEN
                                                                                                                                                 BEQL
                                                                                                                                                                     P1_DESC
P1_DESC
#2,G^STR$UPCASE
                                                                                                                                                                                                                                        We have some request, so...
for matching's sake...
get it all uppercase
Did user specifically request...
to run all phases?
BR if so
                                                           043B'CF
043B'CF
GF 02
                                                                                                                                                 PUSHAQ
                                                                                                                1080
1081
1082
1083
                                                                                                                                                 PUSHAQ
                                    00000000 GF
                                                                                                                                                  CALLS
CMPC3
                                                           043B 'CF
0845 'DF
                                                                                                                                                                      PI DESC.PI BUF, -

DKEY_ALL_DESC+4
                                  045B'CF
                                                                                     13
28
31
                                                                                                                1084
                                                                                                                                                 BEQL
                                                                                                                                                                       40$
       098F 'DF
                                                                                                                1085
                                 045B'CF
                                                            043B'CF
                                                                                                                                                  MOVC3
                                                                                                                                                                             DESC, P1_BUF, aouTLEN+4; Use user's reply since there is one
                                                                                                               1086
1087
                                                                   0110
                                                                                                                                                 BRW
                                                                                                                                                                                                                                     : Join code which has user's selection
                                                                                                                            105:
                                                            098B'CF
                                                                                                                1088
                                                                                                                                                 PUSHAW
                                                                                                                                                                      OUTLEN
                                                                                                                                                                                                                                          Get user's choice - reply length...
                                                           0A96'CF
0857'CF
                                                                                                                                                                      PHASE PROMPT
ANSWER
                                                                                                                1089
                                                                                                                                                 PUSHAQ
                                                                                                                                                                                                                                          ...prompt string...
                                                                                                                                                                                                                                         ...reply string...
- for the phase(s) to execute
BR if we could read response
                                                                                                                1090
                                                                                                                                                 PUSHAQ
                                                                                                                                                                      #3,6°LIB$GET_COMMAND
R0,20$
                                                                                     FB80015537FFB0FFB0130152
                                                                                                                1091
                                    00000000 GF
                                                                                                                                                  CALLS
                                                                80
                                                                                                                1092
                                                                                                                                                  BLBS
                                              0422°CF
                                                                         50
                                                                                                                1093
                                                                                                                                                                      RO, STATUS
                                                                                                                                                  MOVL
                                                                                                                                                                                                                                         Use error code as exit status
                                                                   0950
                                                                                                                1094
                                                                                                                                                                      FINI
                                                                                                                                                 BRW
                                                           098B'CF
                                                                                                                1095
                                                                                                                            205:
                                                                                                                                                  TSTW
                                                                                                                                                                      OUTLEN
                                                                                                                                                                                                                                          Was there some explicit request?
                                                                                                                                                                                                                                        BR if not - supply default
We have some request, so...
for matching's sake...
                                                                                                                1096
                                                                                                                                                 BEQL
                                                                                                                                                                       408
                                                            0988 'CF
                                                                                                                1097
                                                                                                                                                 PUSHAQ
                                                                                               OUTLEN
                                                            0988 'CF
                                                                                                                1098
                                                                                                                                                 PUSHAQ
                                                                                                                                                                      OUTLEN
                                                                                                                                                                                                                                        ... for matching's sake...
get it all uppercase
This will tell which reply we got...
this tells the possibilities...
and this is the text of the reply
See if we want all or a subset
Did we find a reasonable reply?
                                                                                                                                                                     #2,G*STR$UPCASE
BUFFER
                                                                        02
                                                                                                                 1099
                                    00000000°GF
                                                                                                                                                  CALLS
                                                            004D'CF
                                                                                                                 1100
                                                                                                                                                                    SELECT_PHASE
OUTLEN
#3.G^LIB$LOOKUP_KEY
S^#SS$_NORMAL,RU
30$
                                                                                                                                                 PUSHAL
                                                                                                                1101
1102
1103
                                                            OB2D'CF
                                                                                                                                                 PUSHAL
                                                           0988'CF
                                                                                                                                                 PUSHAQ
                                    00000009 GF
                                                                        03
                                                                                                                                                  CALLS
                                                            50
                                                                        00'
                                                                                                                1104
                                                                                                                                                  CMPL
                                                                        06
                                                                                                                 1105
                                                                                                                                                                                                                                          BR if we did
                                                                                                                                                 BEQL
                                                                                                                1106
                                                                                                                                                                      SYNTAX_ERROR
                                                                                                                                                                                                                                          Complain if we did not ...
                                                                   08A8
                                                                                                                                                 BSBW
                                                                                                                                                 BRW
                                                                                                                                                                      PHASE
                                                                                                                                                                                                                                          ...and start all over
                                                           004D
                                                                                                                1108
                                                                                                                            305:
                                                                                                                                                  TSTL
                                                                                                                                                                      BUFFER
                                                                                                                                                                                                                                          Was a subset requested (add'l prompt)?
                                                                                                                                                                                                                                         Yes, go do second prompt fall into that code.
                                                                        32
                                                                                                                                                                       100$
                                                                                                                1109
                                                                                                                                                 BNEQ
                                                                                                                1110
                                                                                                                                                 ; The user requested all phases.
                                                                                                               1112
                                                                                                                            405:
                                                                                                                                                      The user wants all UETP phases,
                                                                                                                                                                                                                                         either explicitly or implicitly.
                                                                                                                                                                     PHASE TABLE R6
#-1 (R6)+ R7
PARAM MSG
                                                           OB5C°CF
                                                                                                                                                 MOVAL
                                                                                                                                                                                                                                         Get the list of phase names ...
                                               56
                                                                                     DE84E0B8006351
                                                                                                                                                 ASHL
                                                                                                                                                                                                                                         ... their count ...
                                                                                                                                                                                                                                         ...an accumulator for total length...
                                                                                                                1115
                                                                                                                                                 CLRW
                                                                                                                                                                      PARAM_BUF,R3
(R6),R5
(R5),R8
R8,1(R5),(R3)
                                                            OTAA'CF
                                                                                                                1116
                                              53
                                                                                                                                                  MOVAL
                                                                                                                                                                                                                                         ... a place to concatenate them...
                                                                                                                                                                                                                                        ...the pointer to a name...
...the length of an individual name...
                                                                        665880CF
                                                                                                                            50$:
                                                                                                                                                  MOVL
                                                                                                                                                 MOVZBW
MOVC3
                                                                                                               1118
                                              01 A5
                                                                                                                                                                                                                                        ... the text forming the name...
                                                                                                               1120
1121
1122
1123
1124
1125
                                                                                                                                                  ADDW2
                                                                                                                                                                      R8, PARAM_MSG
                                                           83
01A2
                                                                                                                                                                       #^A/ /, (R3)+
                                                                                                                                                  MOVB
                                                                                                                                                                                                                                    ; ...and a separator between names...
                                                                                                                                                                      PARAM MSG
                                                                                                                                                  INCW
                                                                                                                                                  TSTD
                                                                                                                                                                       (R6)+
                                                                                                                                                                      R7,508
                                                                                                                                                  SOBGTR
                                                                                                                                                                                                                                   : ... to form the default of all names ; Go process the default list
```

BRW

UETINITOO VAX/VMS UETP USER INTERFACE PROGRAM 16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 V04-001 Main Program Form on the stack an \$fAOL PRMLST of UETP phase names, based on the list to be passed to LIB\$LOOKUP_KEY. Be somewhat clever in listing the names, inserting proper spacing and new lines. In doing so, remember that \$fAOL uses a fIFO algorithm for removing items from the PRMLST. We'll preallocate a worst case amount of space on the stack (which is normally LIFO!) and stick pointers to .ASCIC strings on the list in fIFO order. The space needed takes into account that we could need three longwords per phase name (the name, separator characters and newline), that the list of names has a count of longwords at its front instead of a count of entries, and that we're allocating bytes, not longwords. Use the \$fAOL results as the prompt for the phase we want to 6666666666666669804777FF222227058AAD22447777CF37825 1138 1139 1140 1141 1143 1144 1145 1146 1147 1150 1151 1153 execute. 1005: R6 will clean up the stack later
R7 counts the .ASCIC strings
R8 points to the phase name list
Figure worst case of space we'll need
Preallocate space on the stack
R9 points to base of FIFO list DO D4 DE C2 DO 78 MOVL CLRL 0B5C*CF 68 06 5E 59 59 5E FF 8F PHASE TABLE, R8 #6, (R8), R9 R9, SP MOVAL MULL3 SUBL 2 SP,R9 #-1,(R8)+,R10 MOVL 88 R10 counts phase names remaining ASHL (R8 now points to ptr to first name)
R11 counts characters on a line 08 DO 58 MOVL #8.R11 (The listing of phases starts one...
...tab stop from the left margin) 1105: 00 B8 50 8F 9ACF CF 55 08 57 81 90 0E 00 06 ADDB3 55 5B OACC'CF a(R8),R11,R5 If phase name + current line width... ... + separator chars .GT. 80...
... then start a new line,...
... figure what column we're on,...
... and count another .ASCIC string 000A 55 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1166 1167 1171 1173 1173 1176 1177 #80, COMMA_BLANK, R5, 120\$ ACBB NEW_LINE,(R9)+ #8,R5 R7 MOVAL MOVL INCL 1205: 89 88 0ACC CF 57 02 5B 55 DO DE COOFEE (R8)+,(R9)+Put a phase name on \$FAOL PRMLST Skip over LIB\$LOOKUP_KEY assoc. value
Put separator chars on \$FAOL PRMLST
Count the .ASCIC strings we've pushed
Update current line width
Loop if there are more phase names
Use second half of prompt to...
...overwrite trailing separator chars
Put .ASCIC count in front of PRMLST
Save pointer to the PRMLST TSTL (R8) +COMMA_BLANK, (R9)+ MOVAL #2,R7 R5,R11 ADDL2 MOVL D5 5A OB1E CF R10,110\$ WHICH_PHASE2,-(R9) SOBGTR MOVAL DD 57 5E PUSHL 58 MOVL Save pointer to the PRMLST \$FAOL_S CTRSTR = WHICH_PHASE1,form prompt for ... OUTBUF = FAO BOF .-OUTLEN = BUFFER_PTR,-PRMLST = (R8) MOVL R6,SP DOFFFBB01 : (Restore stack: rid it of PRMLST)

OUTLEN

ANSWER"

BUFFER_PTR

RO, STATUS

#3,G°LIB\$GET_COMMAND R0,200\$

...deciding which phase to run Can we read SYS\$COMMAND?

Supply an exit status...
...and bail out if we can't

PUSHAL

PUSHAL PUSHAL

CALLS

BLBS

MOVL BRU

0988'CF 0045'CF 0857'CF

08

00000000 GF

0422°CF

16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page (

```
Now that we've got a (list of) phase name(s) from P1 or prompt, see if it (they) is (are) valid. P1_DESC can be scratch. Accumulate in PARAM_MSG.
                                             04ED
                                             04ED
                                                             2005:
                                            7F FB 0 10 0 10 7D
                                                                                                                              Convert possible...
                                                                                     OUTLEN
#2,G^STR$UPCASE
#^A/ /,R2
                       098B 'CF
                                                                          PUSHAQ
                                                                                                                              ...lowercase answer...
        00000000 GF
                                                                                                                             ...to uppercase
We'll want a list containing only...
...blanks and phase names...
                                                                          CALLS
                                                                          MOVL
                                                                                                 1.R2
                                                      1190
                                                                          BSBB
                                                                                      2208
                       52
                                                                          MOVL
                                                                                      #^A/./.R2
                                                                                                                              ... so convert other separators ...
                                                      1193
1193
1194
1195
                                                                                      2208
                                                                                                                                 to blanks
                                                                          BSBB
                                                                                                                             Prime pump to form desc for first...
...possible phase name
We have no phase names accepted yet...
...but when we do, they're copied here
Special case: have we an empty list?
                      098B'CF
                                                                          MOVQ
                                                                                      OUTLEN, R6
                      01A2'CF
01A6'CF
098B'CF
                                      B4
D0
B5
12
B4
D0
11
                                                                                      PARAM_MSG
                                                                          CLRW
                                                                                      PARAM MSG+4,R3
OUTLER
                                                      1196
1197
               53
                                                                          MOVL
                                                                          TSTW
                                                      1198
                                                                                      210$
                                                                                                                              BR if not, we can parse it
                                                                          BNEQ
                043B
                                                      1199
                                                                          CLRW
                                                                                      P1_DESC
                                                                                                                              Set up to call our error routine...
                                                                                      WUETPS_BADKEY, RO
                                                     MOVL
                                                                          BRB
                                                                                                                              ...and complain
                                                             2105:
                                      3B377D3A277C7DDDDFB12809B11
               67
                      56
                                                                                      #^A/ /,R6,(R7)
                                                                                                                              Pass over leading/intervening blanks
                                                                                                                             BR if no possible phase names left
Save desc for possible phase name
Find end of the possible phase name
Now get the true length of the name
Set up pointers for the next name
                                                                                      300$
                                                                          BEQL
                                                                                      RO,P1 DESC
#^A/ 7,RO,(R1)
RO,P1_DESC
               043B'CF
                                                                          MOVQ
               61 50
043B'CF
                                                                          LOCC
                                                                          SUBL 2
                                                                          MOVO
                                                                                      RO, R6
                                                                                      #TEXT_BUFFER_BUFFER_PTR
BUFFER_PTR
       0045 CF
                       0120
                                                                          MOVZUL
                                                                          PUSHAL
                                                                                                                              See which phase: out-len...
                                                                          PUSHAL
                                                                                      BUFFER_PTR
                                                                                                                              ...full-dsc-adr...
                                                                          PUSHL
                                                                                                                              ...key-value-adr...
                      0B5C CF
043B CF
GF 05
50 00
                                                                                      PHASE TABLE
                                                                          PUSHAL
                                                                                                                              ...key-table-adr...
                                                                                     P1_DESC
#5,G^LIB$LOOKUP_KEY
$^#$$$_NORMAL,RU
                                                                                                                              ...str-dsc-adr...
                                                                          PUSHAL
         00000000 GF
                                                                          CALLS
                                                                                                                              Did we get a unique match?
                                                                          CMPW
                                                                                                                             BR if not - go to our error routine
Copy an unabbreviated phase name
Include its length in the descriptor
                                                                                      400$
                                                                          BNEQ
                                                                                     BUFFER_PTR, BUFFER, (R3)
BUFFER_PTR, PARAM_MSG
#^A/ /, (R3)+
                                                                          MOVC3
       004D 'CF
       01A2'CF
                                                                          ADDW2
                      83
01A2
                                                                          MOVB
                                                                                                                              Separate phase names...
                                                                                      PARAM_HSG
                                                                          INCW
                                                                                                                              ...and count the separators, too
                                                                          BRB
                                                                                                                              Loop for another phase name
                                                                                      R2.OUTLEN, BOUTLEN+4
                                      3A
13
90
11
05
                                                                                                                             Find a separator we want to convert BR if none are left Convert it to a blank...
098F 'DF
                                                             2205:
               098B 'CF
                                                                          LOCC
                                                                          BEQL
                       61
                                                                          MOVB
                                                                                      #^A/ /,(R1)
                                                                                      2208
                                                                          BRB
                                                                                                                             ...and look for another
                                                             2308:
                                                                We've got our phase name list. We define a group logical name so that it
                                                                will persist beyond running this image. Note that PARAM_MSG and PARAM_BUF are preserved for the FINAL_MESSAGE routine.
                                                             3005:
                                                                                                                          ; Define logical name for UETP.COM label
                                                                          SCRELOG_S LOGNAM = UETPPHASE,-
                                                                                         EQLNAM = PARAM MSG,-
                                                                                         TBLFLG = #1
                                                                                                                             It's a group logical name
                           0085
                                      31
                                                                          BRW
                                                                                      PASS
                                                                                                                           : Process the next question
```

	VAX/VMS UETP USE Hain Program	R INTERFACE PROG	16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 29 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (14:
	05A1 1240 05A1 1241 05A1 1242 05A1 1243	We were passed (just reprompt parameter).	a bum phase name. That's not too bad if we're interactive, but give up if we're not interactive (we were passed a bad
02 043A'CF 01 00'	EN ACA4 15/4	400\$: BBS PUSHL 410\$:	#PROMPTV.FLAGS.410\$; BR if we are prompting because S^#SS\$_BADPARAM;if not we'll want add'l message
01	BB 05A9 1249 05AB 1250 05AB 1251 05AB 1252 05AB 1253	PUSHR SGETMSG_	<pre>#^M<ro> S MSGID = RO MSGLEN = BUFFER PTR BUFADR = FAO_BUF FLAGS = #0 OUTADR = MSG_BLOCK</ro></pre> Save LOOKUP_KEY status over \$GETMSG Figure out If the message In associated with our fail code FLAGS = #0 OUTADR = MSG_BLOCK
52 0406 °CF 09 043B °CF 01 52 02	BA 05C2 1255 9A 05C4 1256 13 05C9 1257 DF 05CB 1258 DD 05CF 1259 D0 05D1 1260 05D4 1261 DD 05D4 1262	POPR MOVZBL BEQL PUSHAL PUSHL MOVL 4208: PUSHL PUSHL	#^M <ro> ; Restore failure code MSG_BLOCK+1,R2 ; Make \$FAO arg count more useable 420\$; BR if there are no associated args P1_DESC ; Assume that the arg is the bad string #1 #2,R2</ro>
50	DD 05D4 1262 05D6 1263 05D6 1264 05D6 1265	PUSHL SFAO_S	RO CTRSTR = INVALID PHASE_MSG,- OUTLEN = BUFFER_PTR,- OUTBUF = FAO_BUF,- P1 = #P1_DESC
0045'CF 01 00741132 8F 19 043A'CF 01 00D9'CF	DD 05F5 1269	PUSHAL PUSHL PUSHL BBC PUSHAL PUSHL	BUFFER_PTR #1 #UETPS_TEXT!STS\$K_ERROR #PROMPTV,FLAGS,430\$; BR if not prompting SYNTAX_ERROR_MSG #1
00741132 8F 52 07 00000000 GF 52 FE4C	E1 05FB 1270 DF 0601 1271 DD 0605 1272 DD 0607 1273 C0 060D 1274 FB 0610 1275 31 0617 1276 061A 1277 C1 061A 1278	PUSHL ADDL2 CALLS BRW	#UETP\$_TEXT!STS\$K_ERROR #7.R2 ; Add to old count for LIB\$SIGNAL args R2.G^LIB\$SIGNAL 100\$; Politely ask again
7E 52 05 06F8	C1 061A 1278 D0 061E 1279 31 0623 1280	ADDL3 MOVL BRW	#5,R2,-(SP) ; Add to old count for ERROR_EXIT args S^#SS\$_BADPARAM,STATUS ; Set the exit status ERROR_EXIT ; Bitch and quit

UETINITO0 V04-001

```
UETINITO0
V04-001
                                                                                                                                                                                                         16-SEP-1984 00:22:25 VAX/VMS Macro V04-00
12-SEP-1984 15:11:07 EUETPSY.SRCJUETINITOO.MAR;2
                                                                                        VAX/VMS UETP USER INTERFACE PROGRAM
                                                                                        Main Program
                                                                                                                                                          If the prompt flag is set prompt the user for the number of passes. If it is not set, try to use P2 for the pass count. If the prompt returns null, or if not prompting and P2 is null, we use the default, one pass.
                                                                                                                       062
062
062
                                                                                                                                    PASS:
                                         1E 043A'CF
                                                                                                                                                                                 #PROMPTV.FLAGS,3$
                                                                                                                                                           BBC
                                                                                                                                                                                                                                                        BR if not prompting
                                                                                           ET DF DF BB DT BB 
                                                                                                                                                                                OUTLEN
PASS PROMPT
ANSWER
                                                                                                      0620
0630
0634
0638
063F
0647
064A
0651
                                                                                                                                                           PUSHAL
                                                                                                                                                                                                                                                        Set response length location
                                                                                                                                                           PUSHAL
                                                                                                                                                                                                                                                        Set prompt string
                                                                                                                                                                                                                                                        Set answer address
                                                                                                                                                           PUSHAL
                                      00000000 GF
                                                                                                                                                                                #3,G^LIB$GET_COMMAND
R0,5$
R0,STATUS
                                                                                                                                                                                                                                                       Ask for the pass count
If no failure than continue
                                                                                                                                                           CALLS
                                                                     19
                                                                                                                                                           BLBS
                                                 0422 CF
                                                                                                                                                           MOVL
                                                                                                                                                                                                                                                        else save error and
                                                                       070D
                                                                                                                                                           BRW
                                                                                                                                                                                                                                                        bail out
                                                                                                                                   35:
                                                                                          D0
28
                                                               0443'CF
0443'CF
                                    098B 'CF
                                                                                                                                                           MOVL
MOVC3
                                                                                                                                                                                P2_DESC,OUTLEN ; Set P2 param length in buffer P2_DESC,P2_BUF,aOUTLEN+4 ; Put in defined pass count
                                   055A'CF
        098F 'DF
                                                                                                                                   55:
                                                                                                      065B
065F
0661
0666
066B
0670
0672
                                                               098B 'CF
                                                                                          D5
12
D0
D0
90
                                                                                                                                                           TSTL
                                                                                                                                                                                                                                                       Do we have a value yet?
Br if yes...
                                                                                                                                                                                 OUTLEN
                                                                                                                                                           BNEQ
                                                                                                                                                                                 10$
                                                                                                                                                                                #1 PASS COUNT
#1 OUTLEN
                                                 0997 'CF
                                                                             01
                                                                                                                                                                                                                                                   ...else save the integer default...
...and fill in the default pass count
                                                                                                                                                           MOVL
                                                                             01
                                                 098B 'CF
                                                                                                                                                           MOVL
                                                 085F 'CF
                                                                                                                                                                                 #^A/1/, ANSWER+8
                                                                                                                                                           MOVB
                                                                                                                       1306
1307
1308
1309
                                                                             ŠE.
                                                                                                                                                           BRB
                                                                                                                                                                                                                                                   ; Go to logical name create
                                                                                                                                    105:
                                                                                                                                                          : Here we test for valid input - either from P2 or response to prompt
                                                                                                     0672
0672
0674
0678
0670
0683
                                                                                                                       1310
                                                                                          DD DF BD1 12 E 30 11
                                                                                                                                                           PUSHL
                                                                                                                                                                                                                                                        Push size of results
                                                                                                                                                                               PASS COUNT
OUTLEN
#3.G*OTS$CVT_TI_L
                                                                                                                                                           PUSHAL
                                                                                                                                                                                                                                                        Push place for results
                                                               098B 'CF
                                                                                                                                                           PUSHAL
                                                                                                                                                                                                                                                        Push ascii results
                                      00000000 GF
                                                                                                                                                           CALLS
                                                                                                                                                                                                                                                        Save the long word pass count
                                                                                                                                                                                RO MOTS INPEONERR
                                                                                                                                                           CMPL
                                      00000000 8F
                                                                                                                                                                                                                                                       Did it get input right?
Br if yes...
BR if not prompting
                                                                                                      068A
068C
0692
                                                                                                                                                                                #PROMPTY, FLAGS, 15$
SYNTAX_ERROR
                                         05 043A'CF
                                                                                                                                                           BBC
                                                                       063E
                                                                                                                                                           BSBW
                                                                                                                                                                                                                                                        ...else report the error...
                                                                                                                      1318
1319
1320
1321
1321
1322
1323
                                                                                                      0695
                                                                                                                                                           BRB
                                                                                                                                                                                PASS
                                                                                                                                                                                                                                                       ...and try again
                                                                                                      0697
                                                                                                                                                           : P2 is an invalid string for pass count - bitch and guit
                                                                                                      0697
0697
0697
                                                                                                                                                                               CTRSTR = INVALID PASS_MSG,-
OUTLEN = BUFFER PTR,-
OUTBUF = FAO_BUF,-
P1 = #P2_DESC
                                                                                                                                                          SFAO_S
                                                                                                      0697
                                                                                                      0697
                                                    00000000 '8F
0045 'CF
                                                                                                      0680
                                                                                                                                                                                 #SS$ BADPARAM
                                                                                                                                                           PUSHL
                                                                                          0686
                                                                                                                                                           PUSHAL
                                                                                                                                                                                BUFFER_PTR
                                                                                                      06BA
                                                                                                                                                           PUSHL
                                                                                                      06BC
                                                    00741132
                                                                                                                                                           PUSHL
                                                                                                                                                                                #UETP$_TEXT!STS$K_ERROR
                                                                                                                                                           PUSHL
                        0422 'CF
                                                    00000000°8F
                                                                                                      0664
                                                                                                                                                           MOVL
                                                                                                                                                                                 #SS$_BADPARAM,STATUS
                                                                                                                                                                                                                                                   : Set the exit status
                                                                                                      06CD
                                                                        064E
                                                                                                                                                           BRW
                                                                                                                                                                                ERROR_EXIT
                                                                                                       0600
                                                                                                                                     205:
                                                                                                       06D0
                                                                                                                                                           SCRELOG_S LOGNAM = PASS_NAME,-
                                                                                                       0600
                                                                                                                                                                                       EGLNAM = OUTLEN,-
                                                                                                                                                                                      TBLFLG = #1
                                                                                                                                                                                                                                                   : Make the pass count group logical name
```

```
UETINITO0
V04-001
```

```
VAX/VMS UETP USER INTERFACE PROGRAM
```

16-SEP-1984 00:22:25 YAX/VMS Macro V04-00 Page 31 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (16)

```
The default LOADS value is determined by several system parameters.
                                                                                                                                          These parameters are extracted from the system and crunched to a
                                                                                                                                          final value. The system parameters are:
                                                                                                                                                                                                                     CPU type, modified if multiprocessor config
free main memory
                                                                                                                                                                  MEM_FREE
MEM_MODIFY
WS_SIZE
                                                                                                                                                                                                                      Modified main memory
                                                                                                                                                                                                                     Current process working set size 
Free page file space
                                                                                              1344890123456789012346567890123455555555556667890123777778881235555555555555566789012377777788812388
                                                                                                                                                                   SWAPISIZE
                                                                                                                                                                                                                      free process swap slots
                                                                                                                                          Constants are defined in this program for the calculation:
                                                                                                                                                                  PP_PAGE_USAGE
PER_WS_INUSE
CPU_SCALE
                                                                                                                                                                                                                     Estimated amount of page file used per process Estimated amount of WS in constant use
                                                                                                                                                                                                                      Estimated CPU performance ratio where 11/780 = 1
                                                                                                                                          The equation used with these values is given in the strings DUMP_MSG1
                                                                                                                                         and DUMP_MSG2.
                                                                           06E3
06EB
06EB
06FD
070F
070F
070F
070F
0711
0715
0722
0724
0731
                                                                                                               LOAD:
                              OPEB'CF
                                                                                                                                                                 MEM_MODIFY, MEM_FREE, R7
R7, R7
WS_SIZE, R8
#PER_WS_INUSE, R8
R8, R7
09E7'CF
                                                                                                                                                                                                                                                     Calculate total amount of free memory Convert free memory size to float
                                                               C1 E E 4 4 4 4 4 4 4 4 7 C 7
                                                                                                                                         CVTLF
                                                                                                                                        CVTLF
MULF2
DIVF2
MULF2
                                09AF
                                                                                                                                                                                                                                                     Convert WS to floating format Scale the WS
                  CCCD3F4C
                                                                                                                                                                                                                                                     Create a rough process capacity count Scale the count for the CPU type
                                                                                                                                                                  CPU SCALE,R7
R7,R7
#PP PAGE USAGE,-
PAGE_SIZE,R6
                               0993
                57
                                                                                                                                          CVTFL
                                                                                                                                                                                                                                                      Convert back to integer
                   000003E8 8F
6 09F3 CF
                                                                                                                                         DIVL3
                                                                                                                                                                                                                                                     Calculate page process count limit
                                                               DD DF DF DD DF DF
                                                                                                                                         PUSHL
                                                                                                                                                                                                                                                     Push # of digits in the fraction
                                                                                                                                                                                                                                                   Push string storage desc adr
Push adr of floating number
Make the number a string
Push # of digits in the fraction
Push string storage desc adr
Push adr of floating number
Make the number a string
                                                                                                                                                                 CPU_SCALE_DES
CPU_SCALE
#3,G^FORSCNV_OUT_F
                               02DE 'CF
0993 'CF
                                                                                                                                         PUSHAL
                                                                                                                                         PUSHAF
   00000000 GF
                                                                                                                                          CALLS
                                                                                                                                          PUSHL
                                                                                                                                                                WS_INUSE_DES
WS_INUSE
                               02EA
02F6
                                                                                                                                          PUSHAL
                                                                                                                                         PUSHAF
                                                               FB
E1
   00000000 GF
                                                                                                                                         CALLS
                                                                                                                                                                                                                                                     BR if not in dump mode - no message 
Make the first output string
      76 043A'CF
                                                                                                                                         SFAO_S
                                                                                                                                                                                        = MEM_MODIFY,-
                                                                                                                                                                                        = WS_SIZE,-
                                                                                                                                        $PUTMSG_S MSGVEC = DUMP_MSG_PTR,- ; Print the filled in equation ACTRIN = ACTRIN
                                                                                                                                         SFAO_S
                                                                                                                                                                  CTRSTR = DUMP_MSG2
                                                                                                                                                                                                                                               ; Make the second output string
                                                                                                                                                                 OUTLEN = BUFFER PTR,-
OUTBUF = FAO BUF,-
P1 = SWAP SIZE -
                                                                                                                                                                                        = SWAP_SIZE,-
```

UETINITOO VO4-001	VAX/VMS U Main Prog	ETP USER INTE	RFACE PROGRAM	16-SEP-1984 00: 12-SEP-1984 15:	22:25 VAX/VMS Macro V04-00 Page (11:07 EUETPSY.SRCJUETINITOO.MAR;2
	0777 0777 0777 079A 079A	1395 1396 1397 1398 1399	P3 P4 \$PUTMSG_S MSGVE(PAGE SIZE,- PPP PAGE USAGE- R6 C = DUMP MSG PTR, N = ACTRIN	-; Print the filled in equation
09F3 CF 09E3 CF 09F3 09F3 09F3 09F3 09F3 09F3 09F3 09F	CF DF 07BB CF DF 07BF 03 FB 07C3 50 D0 07CA 04 D0 07CF	1399 1400 10\$: 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413	MOVL R6, PAGE MOVL R7, MEM S PUSHAL SWAP SIZE PUSHAL PAGE SIZE CALLS #3, G^MTH MOVL R0, LOAD MOVL #4, OUTLE PUSHAL LOAD COL CALLS #2, G*OTS	SIZE ZE ZE H\$JMINO COUNT EN	Page process count limit Available main memory find the minimum of swap slotsfree page file spaceusable main memoryand leave the results in RO save the MIN Set the results length Push output string desc Push the load count value Convert the load count to a string
	07E3 07EC 07FB	1415 1416	\$SETSFM_S ENBFLO \$DELLOG_S LOGNAN TBLFLO \$SETSFM_S ENBFLO	M = USERS,- G = #1	Disable SS failure mode if no match clean out any possible name thatmight be left from a previous run Re-enable system service failure mode
46 043A°CF 0B88 0B8C 01AA°CF 01A2	'DF 080E	1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426	BEQL 20\$ BRW 80\$ SFAO_S CTRSTR = OUTLEN =	V.FLAGS.408 D.DESC AD_DESC+4 SG.PARAM_BUF = LOAD_PROMPT = BUFFER_PTR = FAO_BUF	BR if we need not prompt at all We need only promptif the LDAD phasewas among the phases selected BR if user has a choice No choice - use default
044B 'CF 00FF 044B 0045 044B 00000000 'GF 32	081C 0833 8F B0 0833 CF 3F 083A CF DF 083E CF 7F 0842 03 FB 0846 50 E9 0840	1427 1428 1429 308: 1430 1431 1432 1433	MOVW MAXSYM PUSHAW P3 DESC PUSHAL BUFFER F PUSHAQ P3 DESC	SZ,P3_DESC	Create the prompt string Define desc for response Set response length location Set prompt string Set answer address Ask for the load count BR if failure
52 0448 0988 'CF 0988 'CF 0436 0436 0988 00000000 'GF 5A 05 043A 'CF	62 B5 0855 7F 13 0857 62 3C 0859 62 28 085E 1 CF DF 0865 1 CF DF 0869 02 FB 086D	1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447	MOVAQ P3 DESC, TSTW (R2) BEQL 80\$ MOVZWL (R2), OUT MOVC3 (R2), a40 PUSHAL ARG COUN PUSHAL OUTCEN CALLS #2,GOTS BLBS R0,70\$	TLEN (R2), DOUTLEN+4 NT SSCVT_TI_L V.FLAGS.508	r prompt response Point to desc for response Any response? BR if not - use default Set P3 param length in buffer Use P3 for load count Push place for results Push ascii results Save the long word load count BR if we got a reasonable number BR if not promptingelse report the error
11 043A'CF	04 DO 0882 01 EO 0885	1450 508: 1451	MOVL #4,R2 BBS #PROMPTY	V,FLAGS,608	Assume we are prompting BR if that's the case

UET1N1T00 V04-001				VAX/ Mair	VMS UE	TP US	ER INT	ERFACE PRO	GRAM 16-SEP-1984 (12-SEP-1984)	00:22:25 VAX/VMS Macro VO4-00 Page 33 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (16)
	53	50	00°	DD D6 Ef	088B 088D 088F	1452 1453 1454 1454		PUSHL INCL EXTZV	S^#SS\$_BADPARAM R2 #STS\$V_FAC_NO,- #STS\$S_FAC_NO,RO,R3	; We give an additional error if not ; Was this a System or RMS error?
			53 04 00 52	D7 15 DD D6	0894 0896 0898 089A	1456 1457 1458 1459	400.	DECL BLEQ PUSHL INCL	R3 60\$ #0 R2	They're facilities 0 & 1, respectively BR if System or RMS Dummy arg count needed for other facilities' messages
			50	DD	089E 089E 089E	1460 1461 1462 1463	60\$:	PUSHL SFAO_S	RO CTRSTR = INVALID LOADO OUTLEN = BUFFER PTR,- OUTBUF = FAO BUF,- P1 = #P3 DESC	: Save the error status CNT_MSG,- ; P3 is an invalid load count
	00	004 74113	5°CF 01 2 8F	DF DD DD DD DO 31	089E 0887 0888 088D 08C5 08C5 08D1 08D1 08D8	1464 1465 1466 1467 1468 1470 1471 1473 1474		PUSHAL PUSHL PUSHL PUSHL	BUFFER_PTR #1	
0422'0	F 00	00000	0'8F 044D	31	08C5 08CE	1470		MOVL BRW	#SS\$ BADPARAM, STATUS ERROR_EXIT	: Set the exit status : Bitch and quit
09	98'CF	043	6'CF	00	08D1 08D8	1473	70\$: 80\$:	MOVL SCRELOG	ARG_COUNT, LOAD_COUNT_S LOGNAM = USERS, - EQLNAM = OUTLEN, -	; It converted OK save it away
					0808	1476			TBLFLG = #1	; Make the load count group logical name

```
VAX/VMS UETP USER INTERFACE PROGRAM
UETINITO0
V04-001
                                                                                                           16-SEP-1984 00:22:25
12-SEP-1984 15:11:07
                                                                                                                                           VAX/VMS Macro VO4-00
LUETPSY.SRCJUETINITOO.MAR: 2
                                               Main Program
                                                                         If the prompt flag is set we prompt the user for LONG or SHORT report format to be used by the rest of the UETP, else if P4 is defined we use that. If P4 is not defined or the prompt returns null, we use the default which
                                                                        to be used by the life P4 is not defined is LONG report.
                                                               1483
1483
1484
1485
1486
1487
1488
1489
                                                                      REPORT_Q:
                   13 043A'CF
098B'CF 04
                                                E0
00
28
                                                                                             #PROMPTV,FLAGS.3$ : BR if prompting
P4_DESC.OUTLEN : Set P4 param length in buffer
P4_DESC.P4_BUF.aOUTLEN+4 : Put specified mode in buffer
                                                                                  888
                                                                                  MOVL
    098F 'DF
                                                                                  MOVC3
                                                                                  BRB
                                                               1491
1492
1493
                                                                                  PUSHAL
                                                                                                                                    Set response length location
                                                                                              REPORT_PROMPT
                                  03D7'CF
                                                DF DF FB E8 DO 31
                                                                                  PUSHAL
                                                                                                                                    Set prompt string
                                  0857'CF
                                                                                              ANSWER
                                                                                  PUSHAL
                                                                                                                                    Set asnwer address
                                                                                              #3,G^LIB$GET_COMMAND
                    00000000 GF
                                                                                  BLBS
                                                                                                                                    Ask for the report format
If no failure than continue
                                     80
                                                                495
                                                      091
091
                                                                1496
                          0422°CF
                                                                                                                                    else save error and
                                                                                              RO, STATUS
                                                                                  MOVL
                                                                                  BRW
                                                                                              FINI
                                                                                                                                    bail out
                                                               1498
                                                               1499
1500
1501
1502
1503
                                                D5
12
11
                                                                                                                                    Any format specified?
Br if yes...
Go fill in LONG
                                  0988 'CF
                                                                                              OUTLEN
10$
                                                                                  TSTL
                                                                                  BNEQ
                                                                                              20$
                                                                                  BRB
                                                                      105:
                          085F 'CF
                                                 8A
91
13
91
13
11
                                                                                  BICB2
                                                                                              #LCBIT, ANSWER+8
                                                                                                                                    Make sure that it is upper case
                                    40
                                                                504
                      085F 'CF
                                                                                  CMPB
                                                                                              #^A/L/_ANSWER+8
                                                                                                                                    Is it long report format?
                                                                505
                                                                                  BEQL
                                                                                              208
                                                                                                                                    Br if yes
                                                                506
507
508
                      085F ° CF
                                                                                  CMPB
                                                                                              #^A/S/,ANSWER+8
                                                                                                                                    Is it short report format?
                                                      093D
                                                                                  BEQL
                                                                                              #PROMPTV, FLAGS, 158
                      05 043A'CF
                                                                                                                                    BR if not prompting
                                                                                  BBC
                                      0388
                                                                509
                                                                                  BSBW
                                                                                              SYNYAX ERROR
                                                                                                                                    ...else report a syntax error...
                                                               1510
1511
                                                                                  BRB
                                                                                              REPORT
                                                                                                                                   ...and ask again
                                                                      158:
                                                                                  : P4 is an invalid report type - bitch and guit
                                                      094A
                                                      0944
                                                                                             CTRSTR = INVALID REPORT_MSG, -
OUTLEN = BUFFER_PTR, -
OUTBUF = FAO_BUF, -
                                                                                  SFAO_S
                                                      094A
094A
094A
0963
0969
096D
096F
0975
                                                                                                        = #P4 DESC
                           00000000 '8F
0045 'CF
                                                                                              #SSS_BADPARAM
                                                PUSHL
                                                                                  PUSHAL
                                                                                              BUFFER_PTR
                                                                                  PUSHL
                            00741132
                                                                                  PUSHL
                                                                                              #UETP$_TEXT!STS$K_ERROR
                                                                                  PUSHL
             0422 CF
                            00000000
                                                                                  MOVL
                                                                                              #SS$_BADPARAM,STATUS
                                                                                                                                 ; Set the exit status
                                      039B
                                                                                  BRW
                                                                                              ERROR_EXIT
                                                                      205:
                                                                                   Long format
                                                                                              #4, OUTLEN
#^A/LONG/, ANSWER+8
                                                                                   HOVW
             085F 'CF
                                                                                  MOVL
                                                                                  BRB
                                                                                              408
                                                                      305:
                                                                                   Short format
              0988 °CF 05
00000054 524F4853 8F
                                                                                   MOVE
                                                                                                 OUTLEN
085F 'CF
                                                                                  MOVQ
                                                                                              #^A/SHORT/_ANSWER+8
                                                                       405:
                                                                                  SCHELOG_S LOGNAM = REPORT_NAME, -
                                                                                                 EGLNAM = UUTLENT-
```

VAX/VMS UETP USER INTERFACE PROGRAM Main Program VAX/VMS Macro V04-00 Page 35 [UETPSY.SRC]UETINITOO.MAR;2 (17) TBLFLG = #1 ; Make the report format group logical name Any additional UETP prompting code should be inserted at this point in the code.

UE1 Syn

SEXIT_S STATUS

0422 CF

10000000'8F

DO

OAB! OABO UE 1

Syl

```
VAX/VMS UETP USER INTERFACE PROGRAM 16-SEP-1984 00:22:25 Figure Various Limits of This Configurat 12-SEP-1984 15:11:07
                                                                                                                         VAX/VMS Macro V04-00
LUETPSY.SRCJUETINITOO.MAR; 2
                                                                .SBTTL Figure Various Limits of This Configuration
                                             604
                                                       This code was stolen from the CLI Utility program for SHOW MEMORY. It runs
                                   in EXEC mode.
                                            1606
1607
1608
1609
1610
1611
1613
1614
1615
1616
1617
1618
                                                       It uses the memory descriptors in the Restart Parameter Block to determine the amount of physical memory in use. A check is made to
                                                       see if multiport memory should be counted as local memory.
                                                       The following set of assumptions state that all multiport memory adapter type codes are bounded by NDTS_MPMO and NDTS_MPM3 and that no adapter
                                                       type codes in this range represent anything other than multiport memory.
                                                                           NDTS MPMO LT NDTS MPM1
NDTS MPM1 LT NDTS MPM2
NDTS MPM2 LT NDTS MPM3
                                                                ASSUME
                                                                ASSUME
                                   OAC7
                                                                ASSUME
                                    OAC7
                                            1620
1621
1622
1623
                                    OAC7
                                                    GET_MEM_INFO:
                          OOFC
                                   OAC7
                                                                            "M<R2_R3_R4_R5_R6_R7>
                                                                - WORD
                                    DAC9
                             DODEC53FOF
                                                                           G^EXESGL_CONFREGL,RO
G^EXESGL_RPB,R1
         00000000 GF
                                    CAC9
                                                                MOVL
                                                                                                                  Get address of TR/adapter type array
                                             1624
1625
1626
1627
         00000000 GF
                                    OADO
                                                                MOVL
                                                                                                                  Get addr of RPB
                                                                           RPB$L_MEMDSC(R1),R2
              00BC
                                    OAD7
                                                                MOVAL
                                                                                                                  Get addr of memory descriptors
                                                                                                                  Init local and shared page counts
End of memdsc list?
Yes - finished collecting info
                                                                CLRQ
                                    DADC
                                                                            R6
                                                                           (R2)
                                                    105:
                                    DADE
                                    OAEO
                                            1628
1629
1630
1631
1632
1633
1634
                                                                BEQL
                                                                            40$
53
                                                                           #RPB$V_TR,#RPB$S_TR,(R2),R3; Get TR number
       62
              08
                                                                EXTZV
                                    OAE2
                                                                            (RO)[R3].R3
                                    OAE 7
                   6043
                                                                MOVL
                                                                                                                  Convert to adapter type
                                                                           #RPB$V_PAGCNT,-
#RPB$S_PAGCNT,(R2),R4
                                   OAEB
                                                                EXTZV
                                                                                                                  Get page count
          40 8F
                                    OAED
                             91
                                   OAF O
                                                                            R3, #NDTS_MPMO
                                                                                                                  Is adapter number below MPM range? If so, this is local memory
                                                                CMPB
                              15
                                                                           20$
                                                                BLSSU
                             91
1A
CO
                                   OAF6
OAFA
OAFC
OAFF
          43 8F
                                                                           R3, #NDT$_MPM3
20$
                                                                CMPB
                                                                                                                  Is adapter number above MPA range
                                             1636
1637
1638
1639
                      05
54
03
                                                                                                                  If so, this is also local memory Otherwise, this is multiport memory
                                                                BGTRU
               57
                                                                           R4, R7
                                                                ADDL2
                                                                BRB
                                                                                                                  Go to end of loop
                                   0801
0804
0807
0809
0809
0809
0809
0809
0809
                                            1640
1641
1642
1643
                      54
08
05
                                                    20$:
                                                                                                                  This is local memory
                                                                ADDLS
                                                                ADDLZ
                                                                           #RPB$C_MEMDSCSIZ,R2
                                                                                                                  Point to next memory descriptor
                                                                BRB
                                                                                                                  and go back to top of loop
                                             1644
                                                      There are four cases that can occur here.

    There are no multiport memory controllers on the system. R7 is 0 already.

                                                            Multiport memory is being used as global shared memory. Must clear R7.
                                    2809
                                             1649
                                   0809
0809
0809
0809
                                             1650
                                                            Multiport memory is being used as local memory. This case is distinguished by RPB$V_USEMPM being set in the RPB copy of R5.
                                            1651
1652
1653
                                                            Only multiport memory is being used as local memory. Any memory in local controllers is ignored. This is the multiprocessor
                                    0809
0809
0809
                                             1654
                                             1655
                                                             configuration. This case is distinguished by RPB$V_MPM being set in the RPB copy of R5. Must clear R6.
                                             1656
                                    0809
                                    0809
                                            1658
                      OB
                              E1
                                                    405:
                                                                BBC
                                                                            #RPB$V_MPM,-
                                                                                                               : BR if not multiprocessor config
```

UET

Sym

PHA

PHA

PRIPRI PRIPRI PRIPRI PRIPRI

PROPRV PRV PSW QUA

QUQ

QUO

RET

UE1 Syn

```
VAX/VMS UETP USER INTERFACE PROGRAM
System Service Exception Handler
                                                                     16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2
                                         .SBTTL System Service Exception Handler
        FUNCTIONAL DESCRIPTION:
This routine is executed if a system service or RMS error occurs or if a LIB$SIGNAL system service is used to output a message.
Information about this method of handling messages and errors can be found in the VMS COMMON RUN-TIME manual and in the VMS SYSTEM SERVICE
                                        manual.
                              CALLING SEQUENCE:
Entered via an exception from the system
                  1690
                  1691
1692
1693
1694
                              INPUT PARAMETERS:
                                        ERROR_COUNT
                                                                = previous cumulative error count
                                             AP --->
                  1695
                  1696
1697
1698
1699
1700
1701
1703
1704
1705
1706
1707
1709
1710
1711
1713
1714
1715
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1730
1731
1731
1732
1733
                                                                     ------------
                                                                      SIGNL ARY PNT
                                                                     -----
                                                                      MECH ARY PNT
                                                                      ----------
                                                                      ESTABLISH FP
                                                                           DEPTH
                                                                                                  Mechanism Array
                                                                          ------
                                                                               RO
                                                                               R1
                                                                      CONDITION NAME
                                                                      N-3 ADDITIONAL
                                                                                                       Signal Array
                                                                      LONG WORD ARGS
                                                                               PC
                                                                              PSL
                              IMPLICIT INPUTS:
                                        NONE
                              OUTPUT PARAMETERS:
                                        NONE
                              IMPLICIT OUTPUTS:
                                        The messages are output to SYS$OUTPUT and to UETP.LOG.
                              COMPLETION CODES:
                                        NONE
                              SIDE EFFECTS:
                                        NONE
```

UE1 Pse

PSE

SAE ROC RWC SRI UE

Phi

Ini

Con Pas Syn Pas Syn Pse Crc Ass

The 144 The 20:

Hac

-\$ -\$ TO

189

The

MAI

				OFFC	0858 0858 0858	1737 1738 1739	SSERROR	. WORD	^M <r2,r3,r4,r5,r6,r7,r8< th=""><th>,R9</th><th>,R10,R11> : Entry mask</th></r2,r3,r4,r5,r6,r7,r8<>	,R9	,R10,R11> : Entry mask
		50	01 00° 02 6E	DD D1 13 D4	0850 0850 0866 0868 0868 0860 0867	1739 1740 1741 1742 1743 1744	10\$:	SSETAST, PUSHL CMPL BEQL CLRL	S ENBFLG = #0 #1 \$^#SS\$_WASSET,R0 10\$ (SP)		Disable AST delivery Assume ASTs were enabled Were ASTs enabled? BR if they were Set ASTs to remain disabled
		50	01 00° 02 6E	DD 01 13 04	086F 0878 087A 087D 087F	1747 1748 1749 1750		SSETSFM PUSHL CMPL BEQL CLRL	S ENBFLG = #0 #1 \$^#SS\$_WASSET,R0 20\$ (SP)		Disable SS failure mode Assume SS failure mode was enabled Was SS failure mode enabled? BR if it was Set SS failure mode to remain off
	56 59		10	00 70 ED	0881 0881 0885 0889 0888	1753 1754 1755 1756		MOVL MOVQ CMPZV	CHF\$L_SIGARGLST(AP),R6 CHF\$L_SIG_NAME(R6),R9 #STS\$V_FAC_NO,- #STS\$S_FAC_NO,- R9,#UETP\$_FACILITY	•	Get the signal array pointer Get NAME in R9 and ARG1 in R10 Is this a message from LIB\$SIGNAL?
000	000074	8F 66	59 16 02	12	0B8C 0B92 0B94 0B97	1757 1758 1759 1760 1761		BNEQ SUBL 2 SPUTMSG	R9 #UETPS_FACILITY 30\$ #2.CHF\$L_SIG_ARGS(R6) S MSGVEC = CHF\$L_SIG_ARG	65(BR if this is not a UETP exception Drop the PC and PSL R6),-; Print the message Restore ASTs and SS fail mode
			21	11	0897 0848	1762	30\$:	BRB	40\$:	Restore ASTs and SS fail mode
59	0000	00000	*8f 32 10 0C 5A	01 12 ED	0BAA 0BAA 0BB1 0BB3 0BB5	1764 1765 1766 1767		CMPL BNEQ CMPZV	#SS\$_SSFAIL,R9 50\$ #STS\$V_FAC_NO,- #STS\$S_FAC_NO,-	•	RMS failures are SysSvc failures BR if this can't be an RMS failure Is it an RMS failure?
5A	F000 08	01 00000 A6	5A 2B 8F 04	12 CA 39	0886 0888 088A 08C1 08C5	1768 1769 1770 1771		BNEQ BICL2 MATCHC	R10, #RMSS_FACILITY 50\$ #^XF00000000,R10 #4,CHF\$L SIG_ARG1(R6),- #NRAT_LENGTH,- NO_RMS_AST_TABLE		BR if not Strip control bits from status code Is it an RMS failure for which
		00A4	CF 1A	13	0BC6 0BC9 0BCB	1772 1773 1774 1775	40\$:	BEQL	NO RMS_AST_TABLE	:	no AST can be delivered? BR if so - must give error here
			01	BA	OBCB OBCD	1776		POPR	#^M <ro> S ENBFLG = RO</ro>		Restore SS failure mode
			01	BA	0806 0808	1776 1777 1778 1779		POPR	M^M <ro> S ENBFLG = RO</ro>		Restore AST enable
		50	00.	04	OBE 1	1780 1781		MOVL	S^#SS\$_NORMAL,RO		Supply a standard status for exit Resume processing (or goto RMS_ERROR)
	0422	°CF	59 58	DO	08E5	1782	508:	MOVL	R9.STATUS	;	Save the status
59	0000	00000	'8F 38	00 04 01 12	OBEA OBEC OBF3 OBF5 OBF5 OBF5 OBF5	1784 1785 1786 1787 1788 1789 1790		CLRL CMPL BNEQ \$GETMSG	R8 #SS\$_SSFAIL,R9 70\$ S MSGID = R10,- MSGLEN = BUFFER_PTR,- BUFADR = FAO_BUF,- FLAGS = #14-		Assume for now it's not SS failure But is it a System Service failure? BR if not - no special case message Get SS failure code associated text
		0406	'CF 16	95 13	08F5 0C0C 0C10	1791 1792 1793		TSTB BEQL	FLAGS = #14,- OUTADR = MSG_BLOCK MSG_BLOCK+1 60\$:	Get FAO arg count for SS failure code Don't use \$GETMSG if no \$FAO args

**1

(20)

F 5 UETINITO0 V04-001 VAX/VMS UETP USER INTERFACE PROGRAM 16-SEP-1984 00:22:25 12-SEP-1984 15:11:07 VAX/VMS Macro V04-00 [UETPSY.SRC]UETINITOO.MAR; 2 System Service Exception Handler 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 70\$: 1805 1806 1807 1808 1809 1810 0045 CF ...else build up...
a message describing...
why the System Service failed
Give the message... DF DD DD FO BUFFER_PTR PUSHAL PUSHL #UETPS TEXT R10, #STSSV SEVERITY, -#STSSS_SEVERITY, (SP) #3, R8 70\$ 00741130 8FA335 PUSHL 00 6E 58 INSV ... the correct severity code DO MOVL Count the number of args we pushed BRB 5A 01 DD PUSHL : Save SS failure code 58 : Count the number of args we pushed MOVL #4,CHF\$L_SIG_ARGS(R6),R7; Convert longwords to bytes
R7,SP; Save the current signal array...
R7,CHF\$L_SIG_NAME(R6),(SP); ...on the stack
R8,CHF\$L_SIG_ARGS(R6),-(SP); Push the current arg count
ERROR_EXIT C5 C2 C1 C1 MULL3 SUBL2 MOVC3 57 6E 04 7E ADDL3 OODE BRW ACTRIN: 0004 WORD ~:4<R2> 4:AP),R2
(R2),LOG_RAB+RAB\$W_RSZ
4(R2),LOG_RAB+RAB\$C_RBF
RAB = LOG_RAB
#SS\$_NORMAL,R0 04 AC 62 04 A2 MOVL get the message descriptor address set the message size set the message address write to the log file set the return status code DO MOVL 1816 1817 **SPUT** 00000000'8F MOVL 0063 1818 RET

1819

```
UETINITO0
V04-001
```

```
YAX/VMS Macro V04-00
[UETPSY.SRC]UETINITOO.MAR;2
                          RMS Error Handler
                                                                .SBTTL RMS Error Handler
                                                      FUNCTIONAL DESCRIPTION:
                                                                This routine handles error returns from RMS calls.
                                                       CALLING SEQUENCE:
                                                                Called by RMS when a file processing error is found.
                                                       INPUT PARAMETERS:
                                                                The FAB or RAB associated with the RMS call.
                                                       IMPLICIT INPUTS:
                                                                NONE
                                                       OUTPUT PARAMETERS:
                                                                NONE
                                                       IMPLICIT OUTPUTS:
                                  0064
                                                                Error message
                                           1840
                                                       COMPLETION CODES:
                                                                NONE
                                                      SIDE EFFECTS:
                                  0064
                                                               Program may exit, depending on severity of the error.
                                  0064
                                                   RMS_ERROR:
                        OFFC
                                                                . WORD
                                                                            ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                                                           4(AP) R6

#FAB$C_BID,FAB$B_BID(R6); ... a FAB or a RAB

10$

BR if it's a RAB

FILE.R7

FAB-specific code: text string...
                                  0C66
0C6A
0C6D
0C6F
0C74
0C7A
0C7D
0C83
       56
               04
                           D0
91
12
DE
D0
DD
DD
D1
11
                                                                CMPB
                                                                BNEQ
                                                                MOVAL
                                                                                                                    ...address of FAB...
...STV field for error...
...STS field for error...
                                                                MOVL
                                                                            FAB$L_STV(R6)
FAB$L_STS(R6)
FAB$L_STS(R6),STATUS
COMMON
                                                                PUSHL
                                           1858
1859
1860
1861
                                                                PUSHL
0422'CF
                                                                                                                    ...and save the error code FAB and RAB share other code
                                                                MOVL
                                                                BRB
                                                  103:
                                                                            RECORD,R7
RAB$L_FAB(R6),R8
RAB$L_STV(R6)
RAB$L_STS(R6)
RAB$L_STS(R6),STATUS
           02CF CF
3C A6
0C A6
08 A6
08 A6
                           DE
DO
DD
DD
DD
    57
                                                                MOVAL
                                                                                                                     RAB-specific code: text string...
                                                                                                                    ...address of associated FAB...
                                                                MOVL
                                           1864
1865
1866
1867
1868
                                                                                                                    ...STV field for error...
STS field for error...
                                  0C8E
0C91
0C94
0C9A
0C9E
0C9E
0C9E
0C9E
0C9E
                                                                PUSHL
                                                                PUSHL
0422°CF
                                                                MOVL
                                                                                                                    ...and save the error code
                                                   COMMON:
                                                                            FAB$B FNS(R8),R10 ; Get file name size for implicit PUSHL CTRSTR = RMS ERR STRING, - ; Common code, prepare error message...

OUTLEN = BUFFER PTR, -

OUTBUF = FAO BUF, -

P1 = R7, -

P2 = R10, -

P3 = FAO FILE FNA(PR)
                            9A
                                                                MOVZBL
SFAO_S
               34 A8
       SA
                                                                                       = FAB$L_FNA(RB)
            0045 CF
                                                                PUSHAL
                                                                            BUFFER_PTR
                                                                                                                    ...and arguments for ERROR_EXIT...
                            DD
                                  OCBC
                                                                PUSHL
      00741130 BF
                                                                            MUETPS_TEXT
                                                                PUSHL
```

VAX/VMS UETP USER INTERFACE PROGRAM

VAX/VMS UETP USER INTERFACE PROGRAM

RMS Error Handler

16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 43 12-SEP-1984 15:11:07 EUETPSY.SRCJUETINITOO.MAR;2 (21)

00 EF 0CC4 1878 EXTZV #STS\$V SEVERITY.003 0CC6 1879 #STS\$S SEVERITY.0CC7 1880 OCC7 1880 STATUS.R9 ...get the severity code...
6E 59 88 0CCB 1881 BISB2 R9.(SP) ...and add it into the signal name
05 DD 0CCE 1882 PUSHL #5 Current arg count
0048 31 0CD0 1883 BRW ERROR_EXIT

UETINITO0 V04-001 DF DD DD FB O5

00D9'CF

00000000°GF 03

16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 F 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2

```
.SBTTL Syntax Error Routine
       FUNCTIONAL DESCRIPTION:
This routine handles syntax errors.
               CALLING SEQUENCE:
                      BSBW SYNTAX_ERROR
               INPUT PARAMETERS:
                      NONE
               IMPLICIT INPUTS:
                      NONE
               OUTPUT PARAMETERS:
                      NONE
               IMPLICIT OUTPUTS:
                      NONE
               COMPLETION CODES:
                      NONE
               SIDE EFFECTS:
                      NONE
      1912
1913
1914
1915
OCD3
            SYNTAX_ERROR:
OCD3
OCD3
OCD7
OCD9
OCDF
                      PUSHAL
                               SYNTAX_ERROR_MSG
```

#UETPS_TEXT!STSSK_ERROR #3,G^LIBSSIGNAL

PUSHL

PUSHL CALLS RSB

```
VAX/VMS UETP USER INTERFACE PROGRAM CTRL/C Handler
UETINITO0
V04-001
                                                                                                      16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 12-SEP-1984 15:11:07 EUETPSY.SRCJUETINITOO.MAR;2
                                                                              .SBTTL CTRL/C Handler
                                                                     FUNCTIONAL DESCRIPTION:
                                                                              This routine handles CTRL/C AST's
                                                                      CALLING SEQUENCE:
Called via AST
                                                                      INPUT PARAMETERS:
                                                                              NONE
                                                                      IMPLICIT INPUTS:
                                                                              NONE
                                                                      OUTPUT PARAMETERS:
                                                                              NONE
                                                                      IMPLICIT OUTPUTS:
                                                                              NONE
                                                                      COMPLETION CODES:
                                                                              NONE
                                                                      SIDE EFFECTS:
                                                                              NONE
                                                                   CCASTHAND:
                                           OFFC
                                                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                                                              . WORD
                                00B8 'CF
                                             DF DD DF DD FB DO
                                                                              PUSHAL
                                                                                         CNTRLCMSG
                                                                                                                             Set message pointer
                                                                              PUSHL
                                                                                         #1
#UETP$_TEXT!STS$K_WARNING; Set signal name
                          00741130
                                                                              PUSHL
                                                                              PUSHL
                                                                                                                              Indicate an abnormal termination
                                000F '
                                                                                         TEST_NAME
                                                                              PUSHAL
                                                    OCFB
                                                                              PUSHL
                                                                                         #UETPS ABENDD!STSSK WARNING;
#7. G^LIB$SIGNAL : Outpot
#<$TS$M INHIB MSG!- ; Set of
$5$ CONTROLC--
$TS$K SUCCESS+STS$K WARNING>,-
$TATUS
                                                   OCFD
ODO3
ODOA
                          007410E0
                                                                              PUSHL
                                                                                                                          VING ; ... ; Output the message ; Set the exit status
                   00000000 GF
                                                                              CALLS
                                                                              MOVL
                                                    ODOB
```

SEXIT_S STATUS

: Terminate program cleanly

ODOB

0422'CF

OFFFFFFF '8F

```
VAX/VMS UETP USER INTERFACE PROGRAM Error Exit
UETINITO0
V04-001
                                                                                                               16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 12-SEP-1984 15:11:07 CUETPSY.SRCJUETINITOO.MAR;2
                                                                                      .SBTTL Error Exit
                                                         OD1E
OD1E
OD1E
OD1E
OD1E
OD1E
OD1E
OD1E
                                                                 1966
1967
1968
1969
1971
1972
1973
1976
1978
1978
                                                                            FUNCTIONAL DESCRIPTION:
                                                                                     This routine prints an error message and exits.
                                                                            CALLING SEQUENCE:
                                                                                      MOVx error status value, STATUS
PUSHx error specific information on the stack
                                                                                     PUSHL current argument count
BRW ERROR_EXIT
                                                        ODIE
ODIE
ODIE
ODIE
ODIE
ODIE
                                                                            INPUT PARAMETERS:
                                                                                     Arguments to LIB$SIGNAL, as above
                                                                  1980
1981
                                                                            IMPLICIT INPUTS:
                                                                                     NONE
                                                                            OUTPUT PARAMETERS:
                                                        Message to SYS$OUTPUT and SYS$ERROR
                                                                  1986
1987
1988
                                                                            IMPLICIT OUTPUTS:
                                                                                     Program exit
                                                                  1989
                                                                            COMPLETION CODES:
                                                                  1990
                                                                                     NONE
                                                                 1991
1992
1993
1994
                                                                            SIDE EFFECTS:
                                                                                     NONE
                                                                 1995
                                                                 1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
10$:
                                                        ODIE
                                                        OD1E
                                                                         ERROR_EXIT:
                                                        OD1E
OD1E
                   0436 CF
                                   08 8E
0039 CF
                                                                                                  (SP)+,#8,ARG_COUNT
                                                                                      ADDL3
                                                  C1
DD
DD
DD
DD
DD
DD
DD
DD
DD
                                                                                                                                         Get total # args, pop partial count
                                                        0D24
0D28
0D28
0D2E
0D34
0D3E
0D3E
0D48
0D457
0D57
0D57
0D63
                                                                                      INCL
                                                                                                  ERROR_COUNT
                                                                                                                                         Keep running error count
                                                                                      PUSHL
                                                                                                                                         Push the time parameter
                                                                                                #UETP$ ABENDD!STS$K_ERROR; ..and signal name
ERROR COUNT ; finish off arg list...
#AX10002
                                                                                                 TEST_NAME
                                                                                     PUSHAL
                                                                                                                                         Push test name...
                            000F0002 8F
007410E2 8F
0039 CF
                                                                                     PUSHL
                                                                                     PUSHL
                                                                                      PUSHL
                             000f °CF
00010002 8F
00748022 8F
iF 0436 °CF
                                                                                      PUSHAL
                                                                                      PUSHL
                                                                                                 #UETPS ERBOXPROC!STS$K_ERROR ... for error box message ARG_COUNT,G^LIB$SIGNAL ; Truly bitch
                                                  DD
FB
                                                                                     PUSHL
              00000000 GF
                                                  D5
12
D0
                                   0422 CF
                                                                                                  STATUS
108
                                                                                      TSTL
                                                                                                                                         Was an exit status supplied?
                            007410E2 8F
0422 CF
                                                                                     BNEQ
                                                                                                                                         BR if one was
                                                                                                 #UETPS_ABENDD!STS$K_ERROR,-; None there, supply a default
                                                                                      MOVL
                                                                                     BISL #STS$M_INHIB_MSG,STATUS : Don't print messages twice! SEXIT_S STATUS : Exit in error
             0422°CF
                             10000000 8F
                                                         0066
```

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```
VAX/VMS UETP USER INTERFACE PROGRAM
                                                         16-SEP-1984 00:22:25 VAX/VMS Macro V04-00
12-SEP-1984 15:11:07 CUETPSY.SRCJUETINITOO.MAR;2
 Exit Handler
                                  .SBTTL Exit Handler
                         FUNCTIONAL DESCRIPTION:
                                  This routine handles cleanup on exits.
                          CALLING SEQUENCE:
                                  Invoked automatically by SEXIT System Service.
                          INPUT PARAMETERS:
Location STATUS contains the exit status
                          IMPLICIT INPUTS:
                          OUTPUT PARAMETERS:
        0D7A
0D7A
0D7A
0D7A
0D7A
0D7A
0D7A
0D7A
                                  NONE
                          IMPLICIT OUTPUTS:
                                 Various files are de-accessed, the process name is reset, and any necessary synchronization with UETPDEV01 is carried out.
                COMPLETION CODES:
                                  NONE
                          SIDE EFFECTS:
       0D7A
0D7A
0D7A
0D7A
0D7A
0D7C
0D7C
0D7C
0D85
0D90
                                  NONE
                       EXIT_HANDLER:
OFFC
                                             ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                                  . WORD
                                  $SETSFM_S ENBFLG = #0
$CLOSE FAB = LOG_FAB
$SETPRM_S PRCNAM = ACNT_NAME
                                                                                 Turn off System Service failure mode
                                                                                Close the log file
                                                                              Reset the process name
That's all folks!
                                  RET
        OD9C
        OD9C
                                  .END
                                             UETINITOO
```

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UETINITOO Symbol table	VAX/VMS UETP	USER	INTERFACE PROGRAM 5	16-SEP-1984 12-SEP-1984	00:22:25	VAX/VMS CUETPSY	Macro .SRCJU	V04-00 ETINITOO.MAR; 2	Page	48
\$\$.TAB \$\$.TABEND \$\$.TMP1 \$\$.TMP2 \$\$.TMPX \$\$.TMPX1 \$\$.TMPX1	= 00000A60 R = 00000AA4 R = 000000001 = 00000000F = 00000000 R = 000000000 = 000000000000	03	CTT_LENGTH DCS_TERM DETACH DEVBUF DIAGNOSE DIOLM DISK DISK_BUFFER DUMP		= 0000 0000 0000 0000 0000 0000	00009 007A8 R 00401 R 007AF R 0086D R 0033F R	X 05 02 03 02 02 03 02 03			
SSTZ A730 A750 A780 A782 A785 A787 A8600 ACNT NAME ACTRTN ALLSPOOL ANAUTILUS ANSWER ARG COUNT ASCORPIO ASTLM AUV1 AUV2 BIOLM BUFFER PTR BUGCHK BYPASS CCASTHAND CHFSL_SIG_ARG1 CHFSL_SIG_ARG1 CHFSL_SIG_ARG5 CHFSL_SIG_NAME CLISK_CLISERV CLISK_CLISERV CLISK_CLISERV CLISK_COCAL_SYM	00000975 R 00000989 R 00000960 R 00000967 R 0000098A R 00000000 R 00000640 R 00000783 R 00000997 R 00000985 R 00000985 R 00000985 R 00000986 R 00000986 R 00000986 R 00000986 R 00000986 R	000000000000000000000000000000000000000	DUMPW DUMPW DUMP MSG1 DUMP MSG2 DUMP MSG PTR DV18 DEVCLASS DV18 DEVNAM ENDSTR ENQLM ERROR COUNT ERROR EXIT EXESGL MP EXESGL MP EXESGL MP EXESGL RPB EXIT DESC EXIT HANDLER EXPECTED EXQUOTA FABSB BID FABSB BID FABSB BID FABSB BID FABSC BLN FABSC BLN FABSC SEQ FABSC SEQ FABSC SEQ FABSC STS FABSL STS FABSL STS FABSL STS FABSL STV FABSV CHAN MODE FABSV CR		= 0000 0000 0000 0000 0000 0000 0000 00	00004 00004 00048E R 000554 R 00047E R 000250 R 000867 R 000867 R 00039 R 0001E R 000426 R 00078 R 00078 R 00078 R	X 022 023 023 023 035 X 055 X 055 X 050 020			
CLISK_LOCAL SYM CLISQ_NAMDESC CLISQ_VALDESC CLI REQ_DESC CMEREC CMKRNL CNTRLCMSG COMMAND_DVI FAILED COMMAND_ITMEST COMMA BEANK COMMON CPULIM CPU_NAME_TABLE CPU_SCALE CPU_SCALE_DES CPU_SCALE_TABLE CPU_TYPE_TABLE CR CTRSTR	= 00000008 = 00000004 = 00000005 = 00000001 = 0000000C 000009FB 0000079A 0000079A 0000079A 0000004B 0000004B 0000004B 0000004C 0000004B 00000860 00000855 0000088A 00000941 00000941 000008AA = 0000000D 000008AA R	0300200200200200200200200200200200200200	FAO BOF FILE FILE FILM FINAL_MESSAGE FINI FLAGS FORSCHV OUT F GETSYI ITMLST GET MEM_INFO GROUP GRPNAM INVALID LOADENT	_MSG		00002 00002 00002 00002 00002 00000 00000 00000 00000 00000 00000 0000	× 032			

UE VO

UETINITOO Symbol table	VAX/VMS UETP USER	INTERFACE PROGRAM 16-SEP- 12-SEP-	1984 00:22:25 VAX/VMS Macro VO4-00 Page 45 1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (25
NVALID PHASE MSG NVALID REPORT MSG OSM CTRLCAST OS SETMODE PIS ASTLM PIS BIOLM PIS BYTLM PIS CURPRIV PIS DIOLM PIS ENGLM	0000010D R 0000017F R 005 = 00000409 = 00000310 = 0000031A = 00000400 = 00000313 = 00000313 = 00000320	MMG\$GL_PHYPGCNT MUDE MOUNT MSG_BLOCK MSG_DESC MTH\$JMINO NAME_TBL	00000020 R 02 00000704 R 02 00000405 R 03 00000783 R 03 000006E7 R 02 00000040 = 00000041 = 00000042 = 00000042 = 00000042 = 00000042 = 00000048 R 02 0000070A R 02 0000070A R 02 0000070A R 02
PISTELLM PISTPGFLQUOTA PISTPRCLM PISTQLM PISTUSERNAME	= 00000320 = 0000040f = 0000040E = 00000408 = 00000410 = 00000202	NDTS MPMO NDTS MPM1 NDTS MPM2 NDTS MPM3 NETMBX NEW LINE NOACHT NO RMS AST TABLE	UVUUUVAS R U/
PIS USERNAME PIS USERNAME PIS USERNAME PI ASTLM PI BIOLM PI BYTLM PI CPULIM PI DIOLM PI ENQLM PI FILLM PI PGFLQUOTA	= 00000410 = 00000202 = 00000402 000009B7 R 03 000009B8 R 03 000009C7 R 03 000009C8 R 03 000009C8 R 03 000009C8 R 03 000009C9 R 03 000009D7 R 03 000009D7 R 03 00000B81 R 02 00000B80 R 02	NO RMS AST TABLE NRAT LENGTH OFFSET OPER OTS\$CVT_L_TI OTS\$CVT_TI L OTS\$_INPCONERR OUTLEN P1_BUF P1_DESC	= 00000014 00000624 R 02 000007E8 R 02 ******** X 05 ******* X 05 0000098B R 03 0000045B R 03 0000043B R 03
PIPRCLM PITQLM PITQLM Y ALL DESC Y CLUSTER DESC Y DECNET DESC Y DEVICE DESC Y LOAD DESC Y SUBSET DESC	00000983 R 03 00000987 R 03 00000988 R 03 00000967 R 03 00000963 R 03 00000968 R 03 00000968 R 03 00000907 R 03 00000907 R 03 00000907 R 03 00000907 R 03 00000841 R 02 00000888 R 02 00000888 R 02	P1 BUF P1 DESC P1 LEN P1 NAM P2 BUF P2 DESC P2 LEN P2 NAM P3 BUF P3 DESC	= 00000002 00000A8E R 02 0000055A R 03 00000443 R 03 = 00000002 00000A90 R 02 00000659 R 03
B\$\$A_HERE B\$\$A_STRLOC B\$\$K_NPAIRS B\$GET_COMMAND B\$LOOKUP_KEY B\$SIGNAL	= 00000020 = 00000080 R 02 = 0000088 R 02 = 0000004	P3-LEN P3-NAM P4-BUF P4-DESC P4-LEN P4-NAM PAGE BUF	= 00000002 000000492 R 02 00000758 R 03 00000453 R 03 = 00000002 00000400 R 02 00000400 R 03
DAD DADS DESC DAD COUNT DAD MSG DAD PROMPT DGIROUT	000006E3 R 000006E3 R 000002D6 R 0000099B R 0000018D R 0000039E R 0000039E R 00000605 R 00000605 R 00000605 R 0000007CD R	PAGE_BUF PAGE_COUNT PAGE_SIZE PARAM_BUF PARAM_MSG PASS PASS_COUNT PASS_MSG PASS_NAME	00000409 R 03 000009F3 R 03 000001AA R 03 000001A2 R 03 00000626 R 05 00000997 R 03 00000179 R 03 00000074 R 02 00000366 R 02 = 0000064B R 02 = 00000683 R 02
DGNAM_SIZE DG_FAB DG_IO DG_RAB DNG_MSG AXSYM_SZ	= 000000FF 00000A10 R 03 000007CD R 02 01000A60 R 03 0000044D R 02 = 0000004D = 000000FF	PASS_NAME PASS_PROMPT PC1 PC3 PC5 PC5 PER_WS_INUSE	
EM_FREE EM_MODIFY EM_SIZE	000009E7 R 03 000009EB R 03 000009E3 R 03	PFNMAP PGFLQUOTA PHASE	= 0000088E R 02 = CCCD3F4C 000007ED R 02 00000879 R 02 000003A6 R 05

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Symbol table	VAX/VMS UETP US		12-SEP-198	34 00:22:25 VAX/VMS Ma 34 15:11:07 EUETPSY.SR	COUETINITOO.MAR;2 Page 50
PHASES PHASE PROMPT PHASE TABLE PHY IO PP PAGE USAGE PR\$S SID TYPE PR\$ SID TYP730 PR\$ SID TYP750 PR\$ SID TYP750 PR\$ SID TYP780 PR\$ SID TYP790 PR\$ SID TYP0V1 PR\$ SID TYPUV2 PR\$ SID TYPUV2	0000043E R 00000A96 R 000007F4 R = 0000008 = 00000008 = 00000001 = 00000001 = 00000007 = 00000008 = 0000008 = 00000008 = 00000008 = 00000008 = 000000008 = 0000000008 = 00000000008 = 0000000000000	02	RPB\$V_TR RPB\$V_USEMPM SCH\$GL_FREECNT SCH\$GL_MFYCNT SCH\$GW_PROCCNT SCH\$GW_PROCLIM SELECT_PHASE SETPRI SETPRV	= 00000018 = 0000000C	0.5
PHY IO	000007F4 R	őž	SCHSGL_MFYCNT	******* X	05
PR\$S_SID_TYPE	= 0000008		SCHSGW_PROCEIM	****** X	05 05
PRSV_SID_TYPE PRS_SID_TYP730	= 00000018		SELECT_PHASE SETPRI	0000082D R 00000817 R	02 02
PR\$_SID_TYP750 PR\$_SID_TYP780	= 00000002 = 0000001		SETPRV	0000081E R 00000825 R	05 05 05 02 02 02 02
PR\$_SID_TYP790 PR\$_SID_TYPUV1	= 00000004		SHMEM SHORT MSG SHR\$ ABENDD SHR\$ BADKEY SHR\$ BEGIND SHR\$ ENDEDD SHR\$ TEXT	0000082D R 00000817 R 0000081E R 00000825 R 00000465 R = 00001080 = 00001080 = 00001080 = 00001130 000009F7 R = 00000020	ŎŽ
PR\$_SID_TYPUV2	= 00000008 00000883 P	02	SHR\$ BADKEY	= 00001108	
PRIVS	000009DB R	02	SHR\$ ENDEDD	= 00001080	
RIVPRNTV	= 00000003	00	0.10	000009F7 R	03
RMGBL	000007FB R	02 02 02	SPACE SS\$_BADPARAM	= 00000020	05
PROMPTM	= 00000809 R	02	SS\$_CONTROLC SS\$_NORMAL	****** X	05 05
PRIVS PRIV_CNT PRIV_PRNTV PRMCEB PRMGBL PRMMBX PROMPTM PROMPTV PRV_STR PSWAPM	= 00000001 000002B3 R	02	SS\$_BADPARAM SS\$_CONTROLC SS\$_NORMAL SS\$_SSFAIL SS\$_WASSET SSERROR	******* X	05 05
SWAPM UAD_STATUS	00000810 R 0000041A R	02 02 03	SSERROR START MESSAGE	0000085B R 0000040F R 00000422 R	05 05 05 05 05 05 02 03 05
UOT_CNT	= 00000009 000002BD R	02	START MESSAGE STATUS STRSUPCASE		03
AB\$B_RAC AB\$C_BID AB\$C_BLN AB\$C_SEQ AB\$L_CTX AB\$L_FAB	= 0000001E = 00000001 = 00000044 = 00000000 = 00000018 = 0000003C	OL.	GTOGTO	00000238 R = 00000002 = 00000001 = 00000000 = 10000000 = 000000000	őź
AB\$C_BLN	= 00000044		STSSK_ERROR STSSK_SUCCESS STSSK_WARNING STSSM_INHIB_MSG STSSS_FAC_NO STSSS_SEVERITY	= 00000001	
AB\$L_CTX	= 0000000		STS\$M_INHIB_MSG	= 10000000	
AB\$L_RBF	= 111111111112		STS\$S_SEVERITY	= 00000003	
AB\$L_ROP AB\$L_STS AB\$L_STV AB\$W_RSZ	= 00000004 = 00000008 = 000000000 = 00000022 000002CF R 00000083 R 000003D7 R 000008EB R		STSSV_FAC_NO STSSV_SEVERITY SWAP_SIZE SYIS_PAGEFILE_FREE SYIS_SID SYMBOL CNT SYM_NAM_TABLE SYM_P1	= 00000010 = 00000000 000009EF R	
AB\$L_STV AB\$W_RSZ	= 0000000C = 00000022		SWAP_SIZE SYIS PAGEFILE FREE		03
ECORD	000002CF R 00000083 R	02	SYIS SID SYMBOL CNT	= 00001001	
EPORT_NAME EPORT_PROMPT EPORT_Q	000003D7 R	02	SYM_NAM_TABLE	00000A6E R	02
MS\$_BEN MS\$_BUSY	******* X	02 02 02 05 02 02 02	SYM P2	= 00001074 = 00001001 = 00000004 000000A6E R 000000A76 R 000000A7E R 000000A86 R 00000043B R 000000D3 R 000000D9 R	02 02 02 03 05 05 05
MS\$_CDA MS\$_FAB	******* X	05	SYM P4	00000A86 R	ŎŽ
MSD_FACILITY	= 0000001		SYNTAX_ERROR	00000CD3 R	05
MS\$ RAB MS_ERROR	00000C64 R	02 05 02	SYSSASSIGN MSG	THE TAX OF	05
PB\$C_MEMDSCSIZ	000002DD R = 00000008	02	SYS\$CLOSE	****** GX	05
PB\$L_BOOTR5 PB\$L_MEMDSC	= 00000030 = 000000BC		SYS\$CMEXEC SYS\$COMMAND	00000038 R	02
MSTERR STRING PB\$C_MEMDSCSIZ PB\$L_BOOTR5 PB\$L_MEMDSC PB\$S_PAGCNT PB\$S_TR	= 00000018 = 0000008		SYM-P1 SYM-P2 SYM-P3 SYM-P4 SYM-VAL TABLE SYNTAX_ERROR SYNTAX_ERROR SYNTAX_ERROR SYS\$ASSIGN SYS\$CLI SYS\$CLI SYS\$CLOSE SYS\$CMEXEC SYS\$COMMAND SYS\$COMMAND SYS\$CONNECT SYS\$CREATE SYS\$CREATE SYS\$CRELOG SYS\$DCLEXH	****** GX	05 05
RPB\$V_MPM RPB\$V_PAGCNT	00000C64 R 000002DD R = 00000030 = 0000008C = 00000018 = 00000008 = 00000008 = 00000008		SYS\$CRELOG SYS\$DCLEXH	****** GX	05 05 05 05

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UETINITOO Symbol table	VAX/VMS UETP USER INTERFACE PROGRAM	16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 51 12-SEP-1984 15:11:07 [UETPSY.SRC]UETINITOO.MAR;2 (25)
SYSSDELLOG SYSSEXIT SYSSEXIT SYSSFAOL SYSSGETDVI SYSSGETMSG SYSSGETSYI SYSSGETSYI SYSSPUT SYSSPUT SYSSPUTMSG SYSSPUTMSG SYSSPUTMSG SYSSPUTMSG SYSSETAST SYSSETAST SYSSSETAST SYSSSETAST SYSSSETSFM SYSSTRNLOG SYSDISK SYSGBL SYSNAM SYSPRV SYSTEM TAB TERMINALM	******* GX 05 ******** GX 05 ********* GX 05 ********** GX 05 *********** GX 05 ********** GX 05 ********** GX 05 *********** GX 05 ************ GX 05 ************ GX 05 *********** GX 05 ************ GX 05 ************ GX 05 ************ GX 05 ************** GX 05 ************* GX 05 ************* GX 05 ************* GX 05 ***************** GX 05 ****************** GX 05 ************************************	
TERMINALV TEST_NAME TEXT_BUFFER TMPMBX TQLM TTCHAN UETINITOO UETP	= 00000002 0000000F R 02 = 0000012C 00000840 R 02 00000889 R 02 00000037 R 03 00000000 RG 05 = 00740000 = 00000BAO R 02	
UETPS_ABENDD UETPS_BADKEY UETPS_BADKEY UETPS_BEGIND UETPS_ENDEDD UETPS_ERBOXPROC UETPS_FACILITY UETPS_TEXT UETPPRASE UNKNOWN_CPU USERS USER_LIST VECTOR VERSION VOLPRO WELCOME WELCOME WELCOML WHICH_PHASE1 WHICH_PHASE2 WORLD WRONG_ACCOUNT WS_INUSE_DES WS_SIZE	= 007410E0 = 0074832B = 00741080 = 00741080 = 00748020 = 00000074 = 00741130 000008BB R 02 0000096D R 02 0000096F R 02 0000097 R 03 0000097 R 03 0000002D R 03 00000000 R 03 = 00000000 R 03 = 0000000 R 03 = 0000000 R 03 = 0000000 R 03 = 00000000 R 03 = 0000000 R 03 = 00000000 R 03 = 0000000 R 03 = 00000000 R 03 = 00000000 R 03 = 0000000000 R 03 = 000000000000000000000000000000000000	

UETINITOO Psect synopsis

VAX/VMS UETP USER INTERFACE PROGRAM

16-SEP-1984 00:22:25 VAX/VMS Macro V04-00 Page 52 12-SEP-1984 15:11:07 CUETPSY.SRCJUETINITOO.MAR;2 (25)

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
ABS . SABSS RODATA RWDATA SRMSNAM UETINITOO	00000000 (0.) 00000000 (0.) 00000BCC (3020.) 00000AA4 (2724.) 00000008 (8.) 0000009C (3484.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL CON REL CON REL CON REL	LCL NOSHR NOEXE LCL NOSHR EXE LCL NOSHR NOEXE LCL NOSHR NOEXE LCL NOSHR EXE LCL NOSHR EXE	NORD NOWRT NOVEC BYTE RD WRT NOVEC BYTE RD NOWRT NOVEC PAGE RD WRT NOVEC PAGE RD WRT NOVEC BYTE RD NOWRT NOVEC PAGE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.08	00:00:00.44
Command processing	108	00:00:00.68	00:00:02.67
Pass 1	108 574	00:00:24.52	00:00:50.29
Symbol table sort	0	00:00:02.47	00:00:04.45
Pass 2	386 39	00:00:06.94	00:00:13.70
Symbol table output	39	00:00:00.35	00:00:00.93
Symbol table output Psect synopsis output	Ó	00:00:00.03	00:00:00.03
Cross-reference output	Ŏ	00:00:00.00	00:00:00.00
Assembler run totals	1138	00:00:35.08	00:01:12.52

The working set limit was 2000 pages.
14-004 bytes (282 pages) of virtual memory were used to buffer the intermediate code.
There were 90 pages of symbol table space allocated to hold 1681 non-local and 74 local symbols.
2056 source lines were read in Pass 1, producing 50 object records in Pass 2.
61 pages of virtual memory were used to define 54 macros.

! Macro library statistics !

Macro Library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	1 47 50

1898 GETS were required to define 50 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:UETINITOO/OBJ=OBJ\$:UETINITOO MSRC\$:UETINITOO/UPDATE=(ENH\$:UETINITOO)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0427 AH-BT13A-SE

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